

## Elegant & Flare Series

Off-Grid Solar Inverter



## About Servotech Renewable

Servotech Renewable Power System Ltd. (NSE: SERVOTECH) is India's leading manufacturer of advanced clean energy solutions, specializing in solar Solutions, BESS and EV charging solutions. With a robust pan-India presence, agile manufacturing, and strong R&D capabilities, Servotech is driving India's transition toward a sustainable, energy-independent, and technologically empowered future. Through continuous innovation, strategic collaborations, and large-scale deployments, the company delivers reliable, high-performance solutions that support the nation's clean energy goals. Servotech's comprehensive portfolio spanning solar panels, inverters, Lithium batteries, and EV chargers reflects its commitment to engineering excellence and environmental stewardship. By aligning business growth with global sustainability standards, Servotech stands as a catalyst in shaping India's green energy transformation and powering a cleaner tomorrow.





# Elegant Unik

## PWM Series PCU



### CORE FEATURES



Intelligent Modes



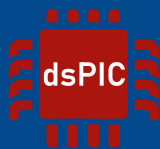
Pure Sine Wave



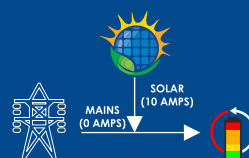
TRUE CV CC PWM



LCD DISPLAY



Advanced  
DSP Technology



AI Charge  
Sharing

- Big Display for Data
- Maximized Solar Usage through Intelligent modes.
- Incorporated with Microchip and ST DSP Engines
- Safety and Protections
- 5 Stage Battery Charging
- Multiple Battery Selection
- Sleek & Aesthetic design
- Works as standalone Solar Inverter in case of No-Grid

### Technical Specifications

| Elegant Unik-PWM Series PCU                                                                                                                 |                         |              |                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                     |                  |  |
|---------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|--|
| Parameters                                                                                                                                  |                         |              | Rating                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                     | Adjustable Range |  |
| Model                                                                                                                                       |                         |              | EU-PCU0GP-2012/S11                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                     |                  |  |
| Capacity                                                                                                                                    |                         |              | 1600VA                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                     | 3000VA           |  |
| Operating DC Voltage                                                                                                                        |                         |              | 12V                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                     | 24V              |  |
| Typical Efficiency                                                                                                                          |                         |              | ≥80%                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                     | ≥82%             |  |
| Switching Element                                                                                                                           |                         |              | MOSFET                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                     |                  |  |
| Charger Topology                                                                                                                            |                         |              | Boost MOSFET                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                     |                  |  |
| Parameters (Grid)                                                                                                                           |                         |              |                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                     |                  |  |
| Nominal Grid Voltage                                                                                                                        |                         |              | 230V                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                     |                  |  |
| Nominal Frequency                                                                                                                           |                         |              | 50Hz                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                     |                  |  |
| Frequency Range                                                                                                                             |                         |              | 45-55Hz                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                     |                  |  |
| Output PF:                                                                                                                                  |                         |              | 0.8                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                     |                  |  |
| Battery Charging Method (5 Stage)                                                                                                           |                         |              | Soft Start/Bulk/Absorption/Float/Equalize                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                     |                  |  |
| Grid-Battery Charging                                                                                                                       | TUB (Default)           | Boost        | 14.4V ± 0.2V (Each Battery)                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                     | 13.8V - 15V      |  |
|                                                                                                                                             |                         | Float        | 13.8V ± 0.2V (Each Battery)                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                     | 13V - 14.2V      |  |
| Grid-Battery Charging                                                                                                                       | SMF                     | Boost        | 14.2V ± 0.2V (Each Battery)                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                     | 13.5V - 14.2V    |  |
|                                                                                                                                             |                         | Float        | 13.8V ± 0.2V (Each Battery)                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                     | 13.5V - 14.2V    |  |
| Grid-Battery Charging Current                                                                                                               | Enable                  | Default      | 15A ± 1A                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                     | 5A - 18A         |  |
|                                                                                                                                             |                         | Maximum      | 18A ± 1A                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                     |                  |  |
| Grid Reconnect @Battery Voltage                                                                                                             | Disable                 | Normal/Boost | Charging Current 0.0A                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                     |                  |  |
|                                                                                                                                             |                         |              | 11.7V ± 0.2V (Each Battery)                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                     | 11V - 12.5V      |  |
| Grid Low Cut Voltage                                                                                                                        | UPS Mode Enable         | 170V ± 10V   |                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                     |                  |  |
|                                                                                                                                             |                         | 100V ± 10V   |                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                     |                  |  |
| Grid Low Cut Recovery                                                                                                                       | UPS Mode Enable         | 180V ± 10V   |                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                     |                  |  |
|                                                                                                                                             |                         | 110V ± 10V   |                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                     |                  |  |
| Grid High Cut Voltage                                                                                                                       | UPS Mode Enable         | 265V ± 10V   |                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                     |                  |  |
|                                                                                                                                             |                         | 290V ± 10V   |                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                     |                  |  |
| Grid High Cut Recovery                                                                                                                      | UPS Mode Enable         | 255V ± 10V   |                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                     |                  |  |
|                                                                                                                                             |                         | 280V ± 10V   |                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                     |                  |  |
| Changeover (Batt. to Mains)                                                                                                                 | UPS Mode Enable/Disable |              | <6ms                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                     |                  |  |
| Changeover (Mains to Batt.)                                                                                                                 | UPS Mode Enable/Disable |              | <25ms                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                     |                  |  |
| DG Mode                                                                                                                                     | Enable/Disable          |              | Disable                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                     |                  |  |
| Parameters (Battery Mode)                                                                                                                   |                         |              |                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                     |                  |  |
| Output Phase                                                                                                                                |                         |              | Single Phase                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                     |                  |  |
| Output Waveform                                                                                                                             |                         |              | Sinewave                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                     |                  |  |
| Nominal Output Voltage                                                                                                                      |                         |              | 220V ± 5%                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                     |                  |  |
| Max. Output Wattage ( Bulb Load)                                                                                                            |                         |              | 4.2A                                                                                                                                                                                                                                                                                                                                             | 8.5A                                                                                                                                                                                |                  |  |
| Nominal Frequency                                                                                                                           |                         |              | 50Hz ± 1                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                     | 50Hz             |  |
| Battery Low Buzzer                                                                                                                          |                         |              | 10.8V ± 0.02V (Each Battery)                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                     | 10.5V - 11.1V    |  |
| Battery Low Cut                                                                                                                             |                         |              | 10.5V ± 0.02V (Each Battery)                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                     | 10V - 11.5V      |  |
| Battery High Cut                                                                                                                            |                         |              | 16.5V ± 0.02V (Each Battery)                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                     | 16.5V - 17.5V    |  |
| Voltage THD                                                                                                                                 |                         |              | <3% (Linear Load)                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                     |                  |  |
| Overload Capacity                                                                                                                           | UPS Mode Disable        |              | >110% 3-Times Auto Reset with 30sec. Delay and 4th Time Shut Down.                                                                                                                                                                                                                                                                               |                                                                                                                                                                                     |                  |  |
|                                                                                                                                             | UPS Mode Enable         |              | >110% 1st Time Shut Down after 30sec. Delay                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                     |                  |  |
|                                                                                                                                             |                         |              | >150% Output Goes Down, Shut Down with 10 sec. delay                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                     |                  |  |
| Protection                                                                                                                                  |                         |              | Overload, Battery Low, Battery High, Over Temperature, Short Circuit, PV Reverse, PV High, Mains Fuse Trip, Grid Overload, Wiring Fault                                                                                                                                                                                                          |                                                                                                                                                                                     |                  |  |
| Switches and LED Indication                                                                                                                 | S.No.                   | Switch       | Function(s)                                                                                                                                                                                                                                                                                                                                      | Switch LED Status                                                                                                                                                                   |                  |  |
|                                                                                                                                             | 1                       | POWER        | ON/OFF UPS Output                                                                                                                                                                                                                                                                                                                                | SYSTEM ON - LED ON , SYSTEM OFF - LED OFF                                                                                                                                           |                  |  |
|                                                                                                                                             | 2                       | Inverter/UPS | When it is Short Pressed it Enable UPS/Inverter Mode Selection. When it is long Pressed Enables the UPS Parameter Setting.                                                                                                                                                                                                                       | UPS Mode ON - LED ON , UPS Mode OFF - LED OFF                                                                                                                                       |                  |  |
|                                                                                                                                             | 3                       | SMF/TUB      | When it is Pressed it Enables TUBULAR/SMF Battery Selection                                                                                                                                                                                                                                                                                      | TUBULAR Battery - LED ON , SMF Battery - LED OFF                                                                                                                                    |                  |  |
|                                                                                                                                             | 4                       | Hybrid/PCU   | When it is short pressed it enables Hybrid/PCU Mode Selection                                                                                                                                                                                                                                                                                    | PCU Mode - LED ON, Hybrid Mode - LED OFF                                                                                                                                            |                  |  |
|                                                                                                                                             | 5                       | Only LED     | Solar Status Green/Red                                                                                                                                                                                                                                                                                                                           | Green LED ON - Full Solar used , Green LED Blinking - Partial Solar used , Green LED OFF - No Solar used , Red LED ON - PV Reverse Protection, Red LED OFF - No Protection Selected |                  |  |
| Display                                                                                                                                     |                         |              | Battery Voltage, Solar Charging Current, Grid Charging Current, Solar Load Current, Grid Voltage, Grid Frequency, Output Voltage, Output Frequency, Load in % on Battery, Load in % on Solar, Charging Mode, Protection, Charging Mode, Solar Kwh(Saving), Solar Availability Status, Solar Working Mode (Hybrid/PCU Lite/PCU Ultra), UPS ON/OFF |                                                                                                                                                                                     |                  |  |
| Parameters (Solar)                                                                                                                          |                         |              |                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                     |                  |  |
| Switching Element                                                                                                                           |                         |              | MOSFET                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                     |                  |  |
| Operating Mode                                                                                                                              |                         |              | HYBRID/PCU LITE/PCU ULTRA                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                     | Hybrid           |  |
| Type of charger                                                                                                                             |                         |              | PWM                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                     |                  |  |
| SPV Charging Voltage                                                                                                                        | TUB                     | Boost        | 15V ± 0.02V (Each Battery)                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                     | 14.2V - 15.5V    |  |
|                                                                                                                                             |                         | Float        | 14.2V ± 0.02V (Each Battery)                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                     | 13.8V - 14.5V    |  |
| SPV Charging Voltage                                                                                                                        | SMF                     | Boost        | 14.3V ± 0.02V (Each Battery)                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                     | 13.5V - 14.5V    |  |
|                                                                                                                                             |                         | Float        | 13.9V ± 0.02V (Each Battery)                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                     | 13.5V - 14V      |  |
| Efficiency                                                                                                                                  |                         |              | ≥97%                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                     |                  |  |
| Solar Current Min.                                                                                                                          |                         |              | >1A (Below 1A, System will act like Solar Absent)                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                     |                  |  |
| Solar Current Max.                                                                                                                          |                         |              | 50A                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                     |                  |  |
| Input Voltage Range (Min - Max) Voc                                                                                                         |                         |              | 17V - 25V                                                                                                                                                                                                                                                                                                                                        | 31V - 45V                                                                                                                                                                           |                  |  |
| Maximum PV Power Recommended                                                                                                                |                         |              | 1000W                                                                                                                                                                                                                                                                                                                                            | 2000W                                                                                                                                                                               |                  |  |
| Parameters (Environment)                                                                                                                    |                         |              |                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                     |                  |  |
| Operating Temperature                                                                                                                       |                         |              | 0 - 50°C                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                     |                  |  |
| Cooling                                                                                                                                     |                         |              | Fan                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                     |                  |  |
| Max. Relative Humidity@25°C (Non-condensing)                                                                                                |                         |              | 95%                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                     |                  |  |
| Noise @1metre                                                                                                                               |                         |              | 50dB                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                     |                  |  |
| Standard Compliance                                                                                                                         |                         |              | IP20                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                     |                  |  |
| Weight(Kg) Gross                                                                                                                            |                         |              | 12kg                                                                                                                                                                                                                                                                                                                                             | 21.5kg                                                                                                                                                                              |                  |  |
| Dimension LxWxH (mm)                                                                                                                        |                         |              | 395X335X225                                                                                                                                                                                                                                                                                                                                      | 395X385X270                                                                                                                                                                         |                  |  |
| Note:- Elegant Unik 2012/S11 model support to 1HP branded Tullu pumps. Elegant Unik 4024/S11 model support to 1HP any make submersible pump |                         |              |                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                     |                  |  |

Note:- Elegant Unik 2012/S11 model support to 1HP branded Tullu pumps. Elegant Unik 4024/S11 model support to 1HP any make submersible pump.

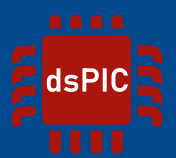
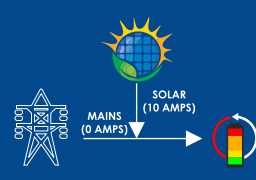
\*Due to continuous improvement technical specifications & product image can change without prior notice.

# Elegant Plus

## PWM Series PCU



### CORE FEATURES

|                                                                                                                           |                                                                                                                  |                                                                                                                      |                                                                                                                 |
|---------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|
|  <p><b>Intelligent Modes</b></p>       |  <p><b>Pure Sine Wave</b></p> |  <p><b>TRUE CV CC PWM</b></p>    |  <p><b>LCD DISPLAY</b></p> |
|  <p><b>Advanced DSP Technology</b></p> |                                                                                                                  |  <p><b>AI Charge Sharing</b></p> |                                                                                                                 |

- Big Display for Data
- Maximized Solar Usage through Intelligent modes.
- Incorporated with Microchip and ST DSP Engines
- Safety and Protections
- 5 Stage Battery Charging
- Multiple Battery Selection
- Sleek & Aesthetic design
- Works as standalone Solar Inverter in case of No-Grid



# Elegant Plus

## PWM Series PCU

### Technical Specifications

| Elegant Plus-PWM Series PCU                                                                                                                                                                                                                                                                                                                      |                         |                  |                                                                                                                                         |                    |                                                                                                                            |                    |                                                                                                                                                                                     |                  |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|------------------|-----------------------------------------------------------------------------------------------------------------------------------------|--------------------|----------------------------------------------------------------------------------------------------------------------------|--------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|--|
| Parameters                                                                                                                                                                                                                                                                                                                                       |                         |                  | Rating                                                                                                                                  |                    |                                                                                                                            |                    |                                                                                                                                                                                     | Adjustable Range |  |
| Model                                                                                                                                                                                                                                                                                                                                            |                         |                  | EP-PCUOGP-1112/S11                                                                                                                      | EP-PCUOGP-1512/S11 | EP-PCUOGP-2224/S11                                                                                                         | EP-PCUOGP-2724/S11 | EP-PCUOGP-3524/S11                                                                                                                                                                  |                  |  |
| Capacity                                                                                                                                                                                                                                                                                                                                         |                         |                  | 800VA                                                                                                                                   | 1150VA             | 1715VA                                                                                                                     | 2150VA             | 2850VA                                                                                                                                                                              |                  |  |
| Operating DC Voltage                                                                                                                                                                                                                                                                                                                             |                         |                  | 12V                                                                                                                                     |                    | 24V                                                                                                                        |                    |                                                                                                                                                                                     |                  |  |
| Typical Efficiency                                                                                                                                                                                                                                                                                                                               |                         |                  | ≥80%                                                                                                                                    |                    | ≥82%                                                                                                                       |                    |                                                                                                                                                                                     |                  |  |
| Switching Element                                                                                                                                                                                                                                                                                                                                |                         |                  | MOSFET                                                                                                                                  |                    |                                                                                                                            |                    |                                                                                                                                                                                     |                  |  |
| Charger Topology                                                                                                                                                                                                                                                                                                                                 |                         |                  | Boost MOSFET                                                                                                                            |                    |                                                                                                                            |                    |                                                                                                                                                                                     |                  |  |
| Parameters (Grid)                                                                                                                                                                                                                                                                                                                                |                         |                  |                                                                                                                                         |                    |                                                                                                                            |                    |                                                                                                                                                                                     |                  |  |
| Nominal Grid Voltage                                                                                                                                                                                                                                                                                                                             |                         |                  | 230V                                                                                                                                    |                    |                                                                                                                            |                    |                                                                                                                                                                                     |                  |  |
| Nominal Frequency                                                                                                                                                                                                                                                                                                                                |                         |                  | 50Hz                                                                                                                                    |                    |                                                                                                                            |                    |                                                                                                                                                                                     |                  |  |
| Frequency Range                                                                                                                                                                                                                                                                                                                                  |                         |                  | 45-55Hz                                                                                                                                 |                    |                                                                                                                            |                    |                                                                                                                                                                                     |                  |  |
| Output PF:                                                                                                                                                                                                                                                                                                                                       |                         |                  | 0.7                                                                                                                                     |                    |                                                                                                                            |                    |                                                                                                                                                                                     |                  |  |
| Battery Charging Method (5 Stage)                                                                                                                                                                                                                                                                                                                |                         |                  | Soft Start/Bulk/Absorption/Float/Equalize                                                                                               |                    |                                                                                                                            |                    |                                                                                                                                                                                     |                  |  |
| Grid-Battery Charging                                                                                                                                                                                                                                                                                                                            | TUB (Default)           | Boost            | 14.4V ± 0.2V (Each Battery)                                                                                                             |                    |                                                                                                                            |                    |                                                                                                                                                                                     | 13.8V - 15V      |  |
|                                                                                                                                                                                                                                                                                                                                                  |                         | Float            | 13.8V ± 0.2V (Each Battery)                                                                                                             |                    |                                                                                                                            |                    |                                                                                                                                                                                     | 13V - 14.2V      |  |
| Grid-Battery Charging                                                                                                                                                                                                                                                                                                                            | SMF                     | Boost            | 14.2V ± 0.2V (Each Battery)                                                                                                             |                    |                                                                                                                            |                    |                                                                                                                                                                                     | 13.5V - 14.2V    |  |
|                                                                                                                                                                                                                                                                                                                                                  |                         | Float            | 13.8V ± 0.2V (Each Battery)                                                                                                             |                    |                                                                                                                            |                    |                                                                                                                                                                                     | 13.5V - 14.2V    |  |
| Grid-Battery Charging Current                                                                                                                                                                                                                                                                                                                    | Enable                  | Default          | 15A ± 1A                                                                                                                                |                    |                                                                                                                            |                    |                                                                                                                                                                                     | 5A - 18A         |  |
|                                                                                                                                                                                                                                                                                                                                                  |                         | Maximum          | 18A ± 1A                                                                                                                                |                    |                                                                                                                            |                    |                                                                                                                                                                                     |                  |  |
| Current                                                                                                                                                                                                                                                                                                                                          | Disable                 | Normal/Boost     | Charging Current 0.0A                                                                                                                   |                    |                                                                                                                            |                    |                                                                                                                                                                                     |                  |  |
|                                                                                                                                                                                                                                                                                                                                                  |                         |                  | 11.7V ± 0.2V (Each Battery)                                                                                                             |                    |                                                                                                                            |                    |                                                                                                                                                                                     | 11V - 12.5V      |  |
| Grid Reconnect @Battery Voltage                                                                                                                                                                                                                                                                                                                  |                         |                  |                                                                                                                                         |                    |                                                                                                                            |                    |                                                                                                                                                                                     |                  |  |
| Grid Low Cut Voltage                                                                                                                                                                                                                                                                                                                             |                         | UPS Mode Enable  | 170V ± 10V                                                                                                                              |                    |                                                                                                                            |                    |                                                                                                                                                                                     |                  |  |
|                                                                                                                                                                                                                                                                                                                                                  |                         | UPS Mode Disable | 100V ± 10V                                                                                                                              |                    |                                                                                                                            |                    |                                                                                                                                                                                     |                  |  |
| Grid Low Cut Recovery                                                                                                                                                                                                                                                                                                                            |                         | UPS Mode Enable  | 180V ± 10V                                                                                                                              |                    |                                                                                                                            |                    |                                                                                                                                                                                     |                  |  |
|                                                                                                                                                                                                                                                                                                                                                  |                         | UPS Mode Disable | 110V ± 10V                                                                                                                              |                    |                                                                                                                            |                    |                                                                                                                                                                                     |                  |  |
| Grid High Cut Voltage                                                                                                                                                                                                                                                                                                                            |                         | UPS Mode Enable  | 265V ± 10V                                                                                                                              |                    |                                                                                                                            |                    |                                                                                                                                                                                     |                  |  |
|                                                                                                                                                                                                                                                                                                                                                  |                         | UPS Mode Disable | 290V ± 10V                                                                                                                              |                    |                                                                                                                            |                    |                                                                                                                                                                                     |                  |  |
| Grid High Cut Recovery                                                                                                                                                                                                                                                                                                                           |                         | UPS Mode Enable  | 255V ± 10V                                                                                                                              |                    |                                                                                                                            |                    |                                                                                                                                                                                     |                  |  |
|                                                                                                                                                                                                                                                                                                                                                  |                         | UPS Mode Disable | 280V ± 10V                                                                                                                              |                    |                                                                                                                            |                    |                                                                                                                                                                                     |                  |  |
| Changeover (Batt. to Mains)                                                                                                                                                                                                                                                                                                                      | UPS Mode Enable/Disable |                  | <6ms                                                                                                                                    |                    |                                                                                                                            |                    |                                                                                                                                                                                     |                  |  |
| Changeover (Mains to Batt.)                                                                                                                                                                                                                                                                                                                      | UPS Mode Enable/Disable |                  | <25ms                                                                                                                                   |                    |                                                                                                                            |                    |                                                                                                                                                                                     |                  |  |
| DG Mode                                                                                                                                                                                                                                                                                                                                          | Enable/Disable          |                  | Disable                                                                                                                                 |                    |                                                                                                                            |                    |                                                                                                                                                                                     |                  |  |
| Parameters (Battery Mode)                                                                                                                                                                                                                                                                                                                        |                         |                  |                                                                                                                                         |                    |                                                                                                                            |                    |                                                                                                                                                                                     |                  |  |
| Output Phase                                                                                                                                                                                                                                                                                                                                     |                         |                  | Single Phase                                                                                                                            |                    |                                                                                                                            |                    |                                                                                                                                                                                     |                  |  |
| Output Waveform                                                                                                                                                                                                                                                                                                                                  |                         |                  | Sinewave                                                                                                                                |                    |                                                                                                                            |                    |                                                                                                                                                                                     |                  |  |
| Nominal Output Voltage                                                                                                                                                                                                                                                                                                                           |                         |                  | 220V ± 5%                                                                                                                               |                    |                                                                                                                            |                    |                                                                                                                                                                                     |                  |  |
| Max. Output Current                                                                                                                                                                                                                                                                                                                              |                         |                  | 2A                                                                                                                                      | 2.7A               | 4.20A                                                                                                                      | 5.1A               | 7A                                                                                                                                                                                  |                  |  |
| Nominal Frequency                                                                                                                                                                                                                                                                                                                                |                         |                  | 50Hz ± 1                                                                                                                                |                    |                                                                                                                            |                    |                                                                                                                                                                                     |                  |  |
| Battery Low Buzzer                                                                                                                                                                                                                                                                                                                               |                         |                  | 10.8V ± 0.02V (Each Battery)                                                                                                            |                    |                                                                                                                            |                    |                                                                                                                                                                                     |                  |  |
| Battery Low Cut                                                                                                                                                                                                                                                                                                                                  |                         |                  | 10.5V ± 0.02V (Each Battery)                                                                                                            |                    |                                                                                                                            |                    |                                                                                                                                                                                     |                  |  |
| Battery High Cut                                                                                                                                                                                                                                                                                                                                 |                         |                  | 16.5V ± 0.02V (Each Battery)                                                                                                            |                    |                                                                                                                            |                    |                                                                                                                                                                                     |                  |  |
| Voltage THD                                                                                                                                                                                                                                                                                                                                      |                         |                  | <3% (Linear Load)                                                                                                                       |                    |                                                                                                                            |                    |                                                                                                                                                                                     |                  |  |
| Overload Capacity                                                                                                                                                                                                                                                                                                                                | UPS Mode Disable        |                  | >110% 3-Times Auto Reset with 30sec. Delay and 4th Time Shut Down.                                                                      |                    |                                                                                                                            |                    |                                                                                                                                                                                     |                  |  |
|                                                                                                                                                                                                                                                                                                                                                  | UPS Mode Enable         |                  | >110% 1st Time Shut Down after 30sec. Delay                                                                                             |                    |                                                                                                                            |                    |                                                                                                                                                                                     |                  |  |
|                                                                                                                                                                                                                                                                                                                                                  |                         |                  | >150% Output Goes Down, Shut Down with 10 sec. delay                                                                                    |                    |                                                                                                                            |                    |                                                                                                                                                                                     |                  |  |
| Protection                                                                                                                                                                                                                                                                                                                                       |                         |                  | Overload, Battery Low, Battery High, Over Temperature, Short Circuit, PV Reverse, PV High, Mains Fuse Trip, Grid Overload, Wiring Fault |                    |                                                                                                                            |                    |                                                                                                                                                                                     |                  |  |
| Switches and LED Indication                                                                                                                                                                                                                                                                                                                      | S.No.                   |                  | Switch                                                                                                                                  |                    | Function(s)                                                                                                                |                    | Switch LED Status                                                                                                                                                                   |                  |  |
|                                                                                                                                                                                                                                                                                                                                                  | 1                       |                  | POWER                                                                                                                                   |                    | ON/OFF UPS Output                                                                                                          |                    | SYSTEM ON - LED ON , SYSTEM OFF - LED OFF                                                                                                                                           |                  |  |
|                                                                                                                                                                                                                                                                                                                                                  | 2                       |                  | Inverter/UPS                                                                                                                            |                    | When it is Short Pressed it Enable UPS/Inverter Mode Selection. When it is long Pressed Enables the UPS Parameter Setting. |                    | UPS Mode ON - LED ON , UPS Mode OFF - LED OFF                                                                                                                                       |                  |  |
|                                                                                                                                                                                                                                                                                                                                                  | 3                       |                  | SMF/TUB                                                                                                                                 |                    | When it is Pressed it Enables TUBULAR/SMF Battery Selection                                                                |                    | TUBULAR Battery - LED ON , SMF Battery - LED OFF                                                                                                                                    |                  |  |
|                                                                                                                                                                                                                                                                                                                                                  | 4                       |                  | Hybrid/PCU                                                                                                                              |                    | When it is short pressed it enables Hybrid/PCU Mode Selection                                                              |                    | PCU Mode - LED ON, Hybrid Mode - LED OFF                                                                                                                                            |                  |  |
| Display                                                                                                                                                                                                                                                                                                                                          | 5                       |                  | Only LED                                                                                                                                |                    | Solar Status Green/Red                                                                                                     |                    | Green LED ON - Full Solar used , Green LED Blinking - Partial Solar used , Green LED OFF - No Solar used , Red LED ON - PV Reverse Protection, Red LED OFF - No Protection Selected |                  |  |
|                                                                                                                                                                                                                                                                                                                                                  |                         |                  |                                                                                                                                         |                    |                                                                                                                            |                    |                                                                                                                                                                                     |                  |  |
| Battery Voltage, Solar Charging Current, Grid Charging Current, Solar Load Current, Grid Voltage, Grid Frequency, Output Voltage, Output Frequency, Load in % on Battery, Load in % on Solar, Charging Mode, Protection, Charging Mode, Solar Kwh(Saving), Solar Availability Status, Solar Working Mode (Hybrid/PCU Lite/PCU Ultra), UPS ON/OFF |                         |                  |                                                                                                                                         |                    |                                                                                                                            |                    |                                                                                                                                                                                     |                  |  |
| Parameters (Solar)                                                                                                                                                                                                                                                                                                                               |                         |                  |                                                                                                                                         |                    |                                                                                                                            |                    |                                                                                                                                                                                     |                  |  |
| Switching Element                                                                                                                                                                                                                                                                                                                                |                         |                  | MOSFET                                                                                                                                  |                    |                                                                                                                            |                    |                                                                                                                                                                                     |                  |  |
| Operating Mode                                                                                                                                                                                                                                                                                                                                   |                         |                  | HYBRID/PCU LITE/PCU ULTRA                                                                                                               |                    |                                                                                                                            |                    |                                                                                                                                                                                     |                  |  |
| Type of charger                                                                                                                                                                                                                                                                                                                                  |                         |                  | Hybrid                                                                                                                                  |                    |                                                                                                                            |                    |                                                                                                                                                                                     |                  |  |
|                                                                                                                                                                                                                                                                                                                                                  |                         |                  | PWM                                                                                                                                     |                    |                                                                                                                            |                    |                                                                                                                                                                                     |                  |  |
| SPV Charging Voltage                                                                                                                                                                                                                                                                                                                             | TUB                     | Boost            | 15V ± 0.02V (Each Battery)                                                                                                              |                    |                                                                                                                            |                    |                                                                                                                                                                                     | 14.2V - 15.5V    |  |
|                                                                                                                                                                                                                                                                                                                                                  |                         | Float            | 14.2V ± 0.02V (Each Battery)                                                                                                            |                    |                                                                                                                            |                    |                                                                                                                                                                                     | 13.8V - 14.5V    |  |
| SPV Charging Voltage                                                                                                                                                                                                                                                                                                                             | SMF                     | Boost            | 14.3V ± 0.02V (Each Battery)                                                                                                            |                    |                                                                                                                            |                    |                                                                                                                                                                                     | 13.5V - 14.5V    |  |
|                                                                                                                                                                                                                                                                                                                                                  |                         | Float            | 13.9V ± 0.02V (Each Battery)                                                                                                            |                    |                                                                                                                            |                    |                                                                                                                                                                                     | 13.5V - 14V      |  |
| Efficiency                                                                                                                                                                                                                                                                                                                                       |                         |                  | ≥97%                                                                                                                                    |                    |                                                                                                                            |                    |                                                                                                                                                                                     |                  |  |
| Solar Current Min.                                                                                                                                                                                                                                                                                                                               |                         |                  | >1A (Below 1A, System will act like Solar Absent)                                                                                       |                    |                                                                                                                            |                    |                                                                                                                                                                                     |                  |  |
| Solar Current Max.                                                                                                                                                                                                                                                                                                                               |                         |                  | 30A                                                                                                                                     |                    | 50A                                                                                                                        |                    |                                                                                                                                                                                     |                  |  |
| Input Voltage Range (Min - Max) Voc                                                                                                                                                                                                                                                                                                              |                         |                  | 17V - 25V                                                                                                                               |                    | 31V - 45V                                                                                                                  |                    |                                                                                                                                                                                     |                  |  |
| Maximum PV Power Recommended                                                                                                                                                                                                                                                                                                                     |                         |                  | 550W                                                                                                                                    | 1000W              | 1800w                                                                                                                      | 2000w              |                                                                                                                                                                                     |                  |  |
| Parameters (Environment)                                                                                                                                                                                                                                                                                                                         |                         |                  |                                                                                                                                         |                    |                                                                                                                            |                    |                                                                                                                                                                                     |                  |  |
| Operating Temperature                                                                                                                                                                                                                                                                                                                            |                         |                  | 0 - 50°C                                                                                                                                |                    |                                                                                                                            |                    |                                                                                                                                                                                     |                  |  |
| Cooling                                                                                                                                                                                                                                                                                                                                          |                         |                  | Fan                                                                                                                                     |                    |                                                                                                                            |                    |                                                                                                                                                                                     |                  |  |
| Max. Relative Humidity@25°C (Non-condensing)                                                                                                                                                                                                                                                                                                     |                         |                  | 95%                                                                                                                                     |                    |                                                                                                                            |                    |                                                                                                                                                                                     |                  |  |
| Noise @1metre                                                                                                                                                                                                                                                                                                                                    |                         |                  | 50dB                                                                                                                                    |                    |                                                                                                                            |                    |                                                                                                                                                                                     |                  |  |
| Standard Compliance                                                                                                                                                                                                                                                                                                                              |                         |                  | IP20                                                                                                                                    |                    |                                                                                                                            |                    |                                                                                                                                                                                     |                  |  |
| Weight (Kg) Gross                                                                                                                                                                                                                                                                                                                                |                         |                  | 9.4kg                                                                                                                                   | 10.0kg             | 12.0kg                                                                                                                     | 16.0kg             | 18.0kg                                                                                                                                                                              |                  |  |
| Dimension LxWxH (mm)                                                                                                                                                                                                                                                                                                                             |                         |                  | 390X335X225                                                                                                                             |                    | 395X385X270                                                                                                                |                    |                                                                                                                                                                                     |                  |  |
| Note:- Elegant plus 3524 model support to 1HP branded submersible pumps                                                                                                                                                                                                                                                                          |                         |                  |                                                                                                                                         |                    |                                                                                                                            |                    |                                                                                                                                                                                     |                  |  |

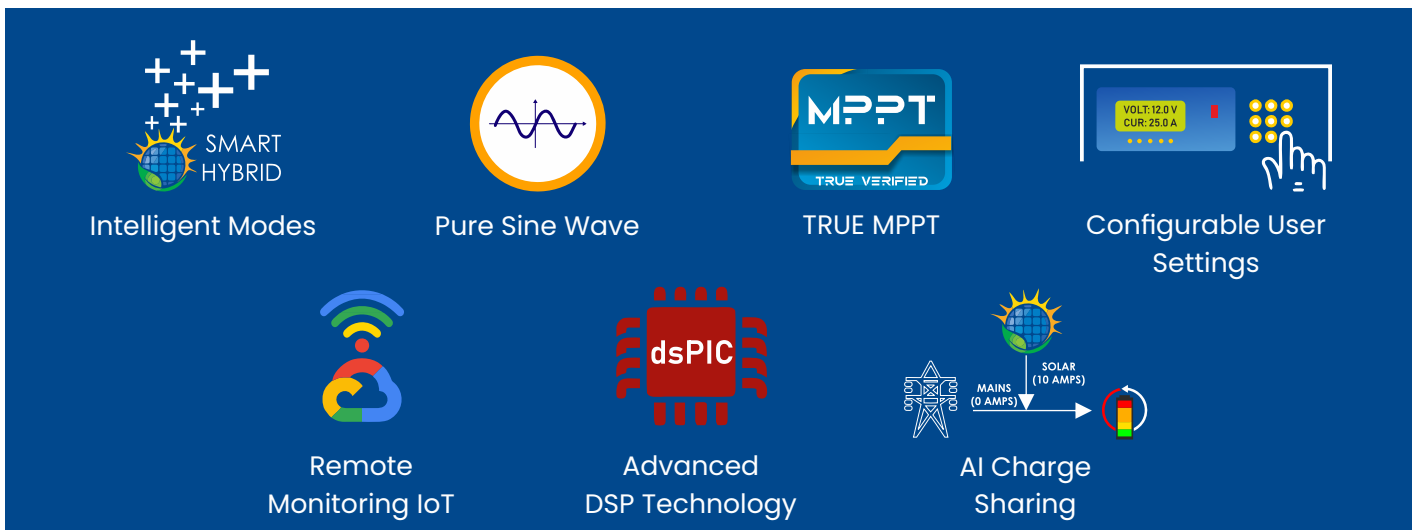
\*Due to continuous improvement technical specifications & product image can change without prior notice.

# Flare

## MPPT Series PCU



### CORE FEATURES



- Big Data Big Display
- Built-in Energy Meter
- Maximized Solar Usage through Intelligent modes.
- 40% less panel required than other PCUs
- RS-232 (Industrial Standard MODBUS)
- Incorporated with Microchip and ST DSP Engines
- Safety and Protections
- IGBT based design and Fast Charging
- Wide range MPPT Input
- 6 Stage Battery Charging
- Multiple Battery Selection
- Sleek & Aesthetic design
- Works as standalone Solar Inverter in case of No-Grid

# Elegant Plus

## PWM Series PCU

### Technical Specifications

| Flare Series MPPT Solar PCU                   |                         |                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                     |                     |                                                                                                                                                                                          |                      |
|-----------------------------------------------|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|
| Parameters                                    |                         | Rating                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                     |                     |                                                                                                                                                                                          |                      |
| System Model Name                             |                         | STF-PCUOGP-3548/S11                                                                                                                                                                                                                                                                                                                               | STF-PCUOGP-5748/S11                                                                                                                                                                                                                                 | STF-PCUOGP-7548/S11 | STF-PCUOGP-8596/S11                                                                                                                                                                      | STF-PCUOGP-10120/S11 |
| Capacity                                      |                         | 3000VA                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                     | 4000VA              | 5500VA                                                                                                                                                                                   | 7500VA               |
| Operating DC Voltage                          |                         |                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                     | 48V                 | 96V                                                                                                                                                                                      | 120V                 |
| Switching Element                             |                         |                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                     | Mosfet              | IGBT                                                                                                                                                                                     | IGBT                 |
| Charger Topology                              |                         | Boost Mosfet                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                     |                     |                                                                                                                                                                                          |                      |
| Parameter (Grid)                              |                         | Default Value                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                     |                     |                                                                                                                                                                                          | Variable Range       |
| Nominal Grid Voltage                          |                         | 230V                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                     |                     |                                                                                                                                                                                          |                      |
| Nominal Frequency                             |                         | 50Hz.                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                     |                     |                                                                                                                                                                                          |                      |
| Frequency Range                               |                         | 45-55 Hz ± 1 Hz.                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                     |                     |                                                                                                                                                                                          |                      |
| Battery Charging Method 4 Stage               |                         | Bulk/Absorption/Float/Equalize                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                     |                     |                                                                                                                                                                                          |                      |
| Grid - Battery Charging                       | TUB (Default)           | Boost                                                                                                                                                                                                                                                                                                                                             | 14.4V ± 0.2V (Each Battery)                                                                                                                                                                                                                         |                     |                                                                                                                                                                                          | 13.8V-15V            |
|                                               |                         | Float                                                                                                                                                                                                                                                                                                                                             | 13.8V ± 0.2V (Each Battery)                                                                                                                                                                                                                         |                     |                                                                                                                                                                                          | 13V-14.2V            |
| Grid - Battery Charging                       | SMF                     | Boost                                                                                                                                                                                                                                                                                                                                             | 14.2V ± 0.2V (Each Battery)                                                                                                                                                                                                                         |                     |                                                                                                                                                                                          | 13.5V-14.2V          |
|                                               |                         | Float                                                                                                                                                                                                                                                                                                                                             | 13.8V ± 0.2V (Each Battery)                                                                                                                                                                                                                         |                     |                                                                                                                                                                                          | 13.5V-14.2V          |
| Grid - Battery Charging Current               | Enable                  | Default                                                                                                                                                                                                                                                                                                                                           | 15A ± 1A                                                                                                                                                                                                                                            |                     |                                                                                                                                                                                          | 5A-18A               |
|                                               |                         | Maximum                                                                                                                                                                                                                                                                                                                                           | 18A ± 1A                                                                                                                                                                                                                                            |                     |                                                                                                                                                                                          |                      |
|                                               | Disable                 | Normal/Boost                                                                                                                                                                                                                                                                                                                                      | Charging Current 0.0A                                                                                                                                                                                                                               |                     |                                                                                                                                                                                          |                      |
| Grid Reconnect @ Battery Voltage              |                         | 11.7V ± 0.2V (Each Battery)                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                     |                     |                                                                                                                                                                                          | 11V-12.5V            |
| Grid Low Cut Voltage                          |                         | UPS Mode Enable                                                                                                                                                                                                                                                                                                                                   | 170V ± 10V                                                                                                                                                                                                                                          |                     |                                                                                                                                                                                          |                      |
|                                               |                         | UPS Mode Disable                                                                                                                                                                                                                                                                                                                                  | 100V ± 10V                                                                                                                                                                                                                                          |                     |                                                                                                                                                                                          |                      |
| Grid Low Cut Recovery                         |                         | UPS Mode Enable                                                                                                                                                                                                                                                                                                                                   | 180V ± 10V                                                                                                                                                                                                                                          |                     |                                                                                                                                                                                          |                      |
|                                               |                         | UPS Mode Disable                                                                                                                                                                                                                                                                                                                                  | 110V ± 10V                                                                                                                                                                                                                                          |                     |                                                                                                                                                                                          |                      |
| Grid High Cut Voltage                         |                         | UPS Mode Enable                                                                                                                                                                                                                                                                                                                                   | 265V ± 10V                                                                                                                                                                                                                                          |                     |                                                                                                                                                                                          |                      |
|                                               |                         | UPS Mode Disable                                                                                                                                                                                                                                                                                                                                  | 290V ± 10V                                                                                                                                                                                                                                          |                     |                                                                                                                                                                                          |                      |
| Grid High Cut Recovery                        |                         | UPS Mode Enable                                                                                                                                                                                                                                                                                                                                   | 255V ± 10V                                                                                                                                                                                                                                          |                     |                                                                                                                                                                                          |                      |
|                                               |                         | UPS Mode Disable                                                                                                                                                                                                                                                                                                                                  | 280V ± 10V                                                                                                                                                                                                                                          |                     |                                                                                                                                                                                          |                      |
| Changeover (Batt. To Mains)                   | UPS Mode Enable/Disable |                                                                                                                                                                                                                                                                                                                                                   | <6ms/<6ms                                                                                                                                                                                                                                           |                     |                                                                                                                                                                                          |                      |
| Changeover (Mains To Batt.)                   | UPS Mode Enable/Disable |                                                                                                                                                                                                                                                                                                                                                   | <6ms/<30ms                                                                                                                                                                                                                                          |                     |                                                                                                                                                                                          |                      |
| DG Mode                                       | Enable/Disable          |                                                                                                                                                                                                                                                                                                                                                   | Disable                                                                                                                                                                                                                                             |                     |                                                                                                                                                                                          |                      |
| Parameter (Battery Mode)                      |                         |                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                     |                     |                                                                                                                                                                                          |                      |
| Output Phase                                  |                         | 1 Phase                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                     |                     |                                                                                                                                                                                          |                      |
| Output Waveform                               |                         | Sinewave                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                     |                     |                                                                                                                                                                                          |                      |
| Nominal Output Voltage                        |                         | 220V ± 5%                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                     |                     |                                                                                                                                                                                          |                      |
| Max. Output Current                           |                         | 9.5A                                                                                                                                                                                                                                                                                                                                              | 13.5A                                                                                                                                                                                                                                               | 17.5A               | 27A                                                                                                                                                                                      | 35A                  |
| Discharging Current                           |                         | 50A ± 2A                                                                                                                                                                                                                                                                                                                                          | 75A ± 2A                                                                                                                                                                                                                                            | 105A ± 2A           | 50A ± 2A                                                                                                                                                                                 | 70A ± 2A             |
| Nominal Frequency                             |                         | 50Hz ± 1%                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                     |                     |                                                                                                                                                                                          |                      |
| Battery Low Buzzer                            |                         | 10.8V ± .02V (Each Battery)                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                     |                     |                                                                                                                                                                                          |                      |
| Battery Low Cut                               |                         | 10.5V ± .02V (Each Battery)                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                     |                     |                                                                                                                                                                                          |                      |
| Battery High Cut                              |                         | 16.5V ± .02V (Each Battery)                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                     |                     |                                                                                                                                                                                          |                      |
| Typical Efficiency                            |                         | ≥ 84%                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                     |                     |                                                                                                                                                                                          |                      |
| Voltage Harmonic                              |                         | < 3% (Linear Load)                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                     |                     |                                                                                                                                                                                          |                      |
| Over Load Capacity                            | UPS Mode Disable        | >110% 3-Times Auto Reset with 30Sec. Delay and 4th Time Shut Down                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                     |                     |                                                                                                                                                                                          |                      |
|                                               | UPS Mode Enable         | >110% 1st Time Shut Down after 30 Sec Delay.                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                     |                     |                                                                                                                                                                                          |                      |
|                                               |                         | >150% Output Goes Down                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                     |                     |                                                                                                                                                                                          |                      |
| Protection                                    |                         | Overload, Battery Low, Battery High, Over Temperature, Short Circuit, PV Reverse, PV High, Mains Fuse Trip, Grid Overload                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                     |                     |                                                                                                                                                                                          |                      |
| Switches and LED Indication                   | S.No.                   | Switch                                                                                                                                                                                                                                                                                                                                            | Function(s)                                                                                                                                                                                                                                         |                     | Switch Led Status                                                                                                                                                                        |                      |
|                                               | 1                       | POWER                                                                                                                                                                                                                                                                                                                                             | ON/OFF the UPS Output                                                                                                                                                                                                                               |                     | SYSTEM ON - Led ON<br>SYSTEM OFF - Led OFF                                                                                                                                               |                      |
|                                               | 2                       | INV/UPS                                                                                                                                                                                                                                                                                                                                           | When it is short pressed it enables UPS/Inverter Mode Selection.<br>When it is Long pressed Enables the UPS Parameter Setting.<br>The LCD Displays : "Edit Parameters Setting".<br>The Switches function now change to:<br>POWER - Enter/OK Switch. |                     | UPS Mode ON - Led ON<br>UPS Mode OFF - Led OFF                                                                                                                                           |                      |
|                                               | 3                       | SMF/TUB                                                                                                                                                                                                                                                                                                                                           | When it is short pressed it enables TUBULAR or SMF Battery Selection.                                                                                                                                                                               |                     | TUBULAR Battery - Led ON<br>SMF Battery - Led OFF                                                                                                                                        |                      |
|                                               | 4                       | HYBRID/PCU                                                                                                                                                                                                                                                                                                                                        | When it is Short pressed it Enables the Hybrid or PCU Mode Selection.                                                                                                                                                                               |                     | PCU Mode - Led ON<br>HYBRID Mode - Led OFF                                                                                                                                               |                      |
|                                               | 5                       | ONLY LED                                                                                                                                                                                                                                                                                                                                          | Solar status Green/Red                                                                                                                                                                                                                              |                     | Green LED ON - Full Solar Used<br>Green LED Blinking – Partial Solar Used<br>Green LED OFF - No Solar Used<br>Red LED ON – PV Reverse Protection<br>Red LED OFF – No Protection Selected |                      |
| Display                                       |                         | Battery Voltage, Solar Charging current, Grid Charging current, Solar Load Current, Grid Voltage, Grid Frequency, Output Voltage, Output Frequency, Load in % on Battery, Load in % on Solar, Charging Mode, Protection, Charging Mode, Solar Kwh(Saving), Solar availability Status, Solar Working Mode(HYBRID/PCU LITE/ PCU ULTRA), UPS ON/OFF. |                                                                                                                                                                                                                                                     |                     |                                                                                                                                                                                          |                      |
| Photovoltaic Input                            |                         |                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                     |                     |                                                                                                                                                                                          |                      |
| Input Voltage Range (Min - Max)               |                         | 80 - 260 VDC                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                     | 140 - 360 VDC       | 200 - 360 VDC                                                                                                                                                                            |                      |
| Maximum PV Power Recommended                  |                         | 3.0 KW                                                                                                                                                                                                                                                                                                                                            | 4.0KW                                                                                                                                                                                                                                               | 5.5 KW              | 7.5 KW                                                                                                                                                                                   | 10 KW                |
| MPPT Based Charging Controller                |                         |                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                     |                     |                                                                                                                                                                                          |                      |
| Switching Element                             |                         | Mosfet                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                     |                     |                                                                                                                                                                                          |                      |
| Controller                                    |                         | ARM- Cortex                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                     |                     |                                                                                                                                                                                          |                      |
| Type of Charger                               |                         | MPPT                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                     |                     |                                                                                                                                                                                          |                      |
| Efficiency                                    |                         | 95%                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                     |                     |                                                                                                                                                                                          |                      |
| Parameter (Environment)                       |                         |                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                     |                     |                                                                                                                                                                                          |                      |
| Operating Temperature                         |                         | 0 - 50°C                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                     |                     |                                                                                                                                                                                          |                      |
| Cooling                                       |                         | Fan                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                     |                     |                                                                                                                                                                                          |                      |
| Max. Relative Humidity @25°C (Non Condensing) |                         | 95%                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                     |                     |                                                                                                                                                                                          |                      |
| Noise @ 1 Meter                               |                         | 50dB                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                     |                     |                                                                                                                                                                                          |                      |
| Standard Compliance                           |                         | IP20                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                     |                     |                                                                                                                                                                                          |                      |
| Weight (kg)                                   |                         | 28.34                                                                                                                                                                                                                                                                                                                                             | 31.2                                                                                                                                                                                                                                                | 45                  | 45.8                                                                                                                                                                                     | 68.1                 |
| Dimension L x W x H (mm)                      |                         | 430X400X500                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                     | 520X400X640         |                                                                                                                                                                                          |                      |

\*Due to continuous improvement technical specifications & product image can change without prior notice.



# INDIA'S TRUSTED



## CONTACT US

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## Servotech Renewable Power System Ltd.

**Corporate Office :** 806, 8th Floor, Crown Heights, Sector-10, Rohini, New Delhi - 110085

**Warehouse:** Khasra No. 8/5, 6, 14/2, 15/1, 16/2 Min & 17, Jakhauli Road, Jhundpur, Sonipat, Haryana - 131021

**Reg. Add. & Kundli Plant:** Khata No. 1970, Khewat No. 1672, Khasra No. 21/20/2/2, Revenue Estate, Kundli, P.S.Rai, Sonipat, Haryana - 131029

**Safiabad Plant:** Killa No. 14/6/1/2 (0-3), 6/2/3 (5-13) Village-Safiabad, Pana Paposhian, Rai, Sonipat, Haryana - 131029

