



Solar Tubular Batteries



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.



Solar Tubular Batteries



Core Features

Tubular Technology

The positive plate support in Tubular Batteries is cast at high pressure (100 Bar) on an imported HADI machine, ensuring void-free structure and consistent grain orientation, as well as protecting the plate support from anodic corrosion. As a result, improved reliability and longer life are assured. Tubular plates have a low antimony concentration, which minimises the frequency of filling up and makes the battery low maintenance. This also keeps the float charging current low, lowering the overall energy required to keep the battery charged during standby float.

BENEFITS

- Designed specifically for demanding SPV applications.
- Tubular Technology is used in the manufacturing process, ensuring dependable and consistent results.
- Designed to function in a partial state of transition.
- Designed specifically for cyclic use.
- The voltage and energy output profiles are superior.
- Outstanding charging efficiency:
 - AH efficiency is greater than 90%;
 - WH efficiency is greater than 80%.
- A service life that is comparable to the greatest international brands.
- At a CIO discharge temperature of 250., the designed cycle life is:
 - 1500 cycle with a DOD of 80%
 - 3000 cycles to a DOD of 50%
 - 5000 cycles to a DOD of 20%
- Supplied fully charged from the factory, ensuring excellent quality and readiness for use.
- Extremely low upkeep
- 6V mono-blocks are offered with either a Ms Cabinet (with a suitable exhaust system installed) or an MS Stand (in a knock-down state).



Available in
SOLAR-TUBULAR range



PPCP
Container



Tubular Positive
Plates



Pasted Negative
Plates



High porosity Envelope
Separators



Microporous Ceramic
Vent Plug



High tensile, acid
resistant Polyester
Gantlets



Low resistance
Fasteners

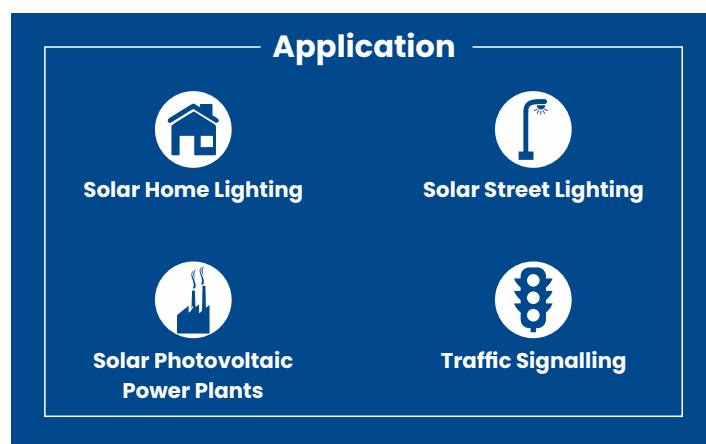
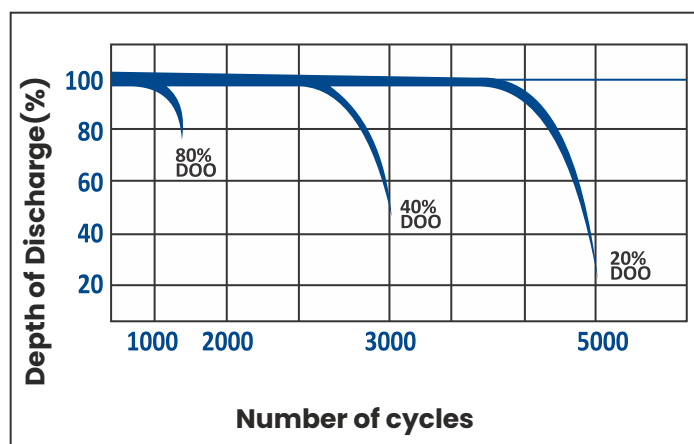


Heavy duty
Terminal

Charging Characteristics of Solar Batteries

Mode of Operation	Voltage setting per mono-block unit for ambient temperature 25–300C		Current Settings
	12V mono-block	6V mono-block	Maximum - 20% of battery Ah capacity
Float Voltage	13.7V ± 0.1V	6.85V ± 0.1V	
Bulk Voltage	14.5V ± 0.1V	7.25V ± 0.1V	Maximum - 10% of battery Ah capacity
Low Voltage Disconnect	11.1V ± 0.1V	5.55V ± 0.1V	

Cycle Life:



Tubular Batteries (IS)

Battery Model	Capacity (AH)	Dimensions (+/-3) mm			Constant Current Charge (A)
		L	W	H	
STB400+	C10 - 40 AH	410	175	240	4A
STB750+	C10 - 75 AH	500	220	255	7.5A
STB1500+	C10 - 150 AH	505	190	410	15A
STB1500	C20 - 150 AH	505	190	410	10A
STB2000	C20 - 200 AH	505	190	410	11A
STB2200	C20 - 220 AH	505	190	410	12A
STB2500	C20 - 250 AH	505	190	410	12A

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

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CONTACT US

Ph: 011-41183116, +91 97176 91800 |  +91 93113 13734

Email: servotech@servotechindia.com | Website: www.servotech.in

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

