



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 C10 discharge temperature of 25°C, 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
 Cauntlets



Low resistance
 Fasteners

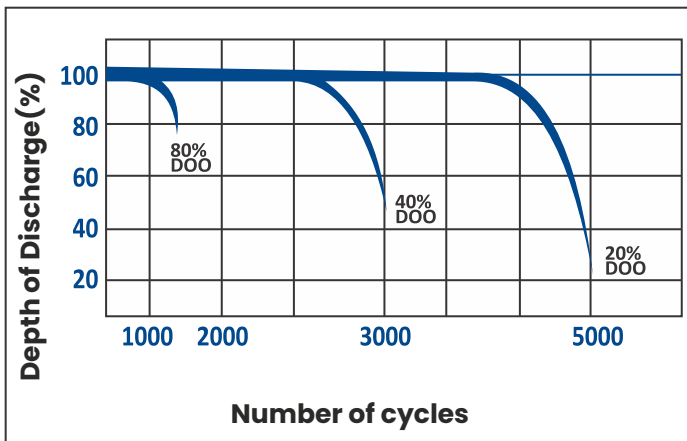


Heavy duty
 Terminal


Charging Characteristics of Solar Batteries


Mode of Operation	Voltage setting per mono-block unit for ambient temperature 25–30°C		Current Settings
	12V mono-block	6V mono-block	
Float Voltage	13.7V ± 0.1V	6.85V ± 0.1V	Maximum - 20% of battery Ah capacity
Bulk Voltage	14.5V ± 0.1V	7.25V ± 0.1V	
Low Voltage Disconnect	11.1V ± 0.1V	5.55V ± 0.1V	Maximum - 10% of battery Ah capacity


Cycle Life:




Application


Solar Home Lighting


Solar Street Lighting


Solar Photovoltaic Power Plants


Traffic Signalling

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

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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

