

Servlith Series

Energy Storage Systems



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.



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APPLICATION



Suitable for photovoltaic energy storage
High charge and discharge currents of up to 100A/200A, suitable for solar energy storage systems.



Ultra-long cycling life
4000 battery cycles, with 5-year warranty and designed lifespan of over 10 years.



LCD display
Equipped with a display screen with communication ports (CAN/RS485/RS232).



Wall-mountable Compact design, small size, space-saving.



Multiple protection design
Built-in protections against overcharge, over-discharge, over-temperature, over-current, Short-circuit, etc.



Communication friendly
Can communicate with different brands of hybrid energy storage Inverters.

Servlith Series Energy Storage Systems

Technical Specifications				
Parameter	1.28kWh (12.8V 100Ah)	2.56kWh (25.6V 100Ah)	4.8kWh (48V 100Ah)	5.12kWh (51.2V 100Ah)
Model No	ST-SL1210	ST-SL2510	ST-SL4810	ST-SL5110
Application	Inverter / Energy Storage System (ESS)	Inverter / Energy Storage System (ESS)	Inverter / Energy Storage System (ESS)	Inverter / Energy Storage System (ESS)
Battery Chemistry	Lithium Iron Phosphate (LiFePO ₄ / LFP)	Lithium Iron Phosphate (LiFePO ₄ / LFP)	Lithium Iron Phosphate (LiFePO ₄ / LFP)	Lithium Iron Phosphate (LiFePO ₄ / LFP)
Cell Specification	3.2V 100Ah	3.2V 100Ah	3.2V 100Ah	3.2V 100Ah
Battery Configuration	4S1P	8S1P	15S1P	16S1P
BMS Type	Smart Battery Management System (BMS)	Smart Battery Management System (BMS)	Smart Battery Management System (BMS)	Smart Battery Management System (BMS)
Nominal Voltage (V)	12.8V	25.6V	48.0V	51.2V
Rated Capacity (Ah)	100Ah	100Ah	100Ah	100Ah
Rated Energy (kWh)	1.28	2.56	4.8	5.12
Usable Energy @ 80% DoD (kWh)	1.02	2.05	3.84	4.10
Battery Packs in Parallel	N/A	Up to 15 Packs	Up to 15 Packs	Up to 15 Packs
Maximum Parallel Energy (kWh)	N/A	15.36	28.8	30.72
Maximum Charge Voltage (V)	14.6V	29.2V	54.75V	58.4V
Recommended Operating Voltage Range (V)	11.6V – 14.2V	23.2V – 28.4V	43.5V – 53.2V	46.4V – 56.8V
Discharge Cut-off Voltage (V)	10.8V	21.6V	40.5V	43.2V
Standard Charging Current (0.35C)	35A	35A	35A	35A
Maximum Charging Current (1C)	100A	100A	100A	100A
Standard Discharging Current (0.5C)	50A	50A	50A	50A
Maximum Discharging Current (1C)	100A	100A	100A	100A
Maximum Continuous Output Power (kW)	1.28	2.56	4.8	5.12
Communication Protocol	Bluetooth	CAN / RS485 / RS232	CAN / RS485 / RS232	CAN / RS485 / RS232
Connectivity	Bluetooth	Bluetooth / Wi-Fi	Bluetooth / Wi-Fi	Bluetooth / Wi-Fi
Cell Over Voltage Protection (OVP)	3.65V/cell	3.65V/cell	3.65V/cell	3.65V/cell
Pack Over Voltage Protection	14.6V	29.2V	54.75V	58.4V
Cell Under Voltage Protection (UVP)	2.70V/cell	2.70V/cell	2.70V/cell	2.70V/cell
Pack Under Voltage Protection	10.8V	21.6V	40.5V	43.2V
Charge Over Current Protection	100A	100A	100A	100A
Discharge Over Current Protection	100A	100A	100A	100A
Short Circuit Protection	Instantaneous Electronic Trip with Auto Recovery	Instantaneous Electronic Trip with Auto Recovery	Instantaneous Electronic Trip with Auto Recovery	Instantaneous Electronic Trip with Auto Recovery
Charge Over Temperature Protection	+45°C	+45°C	+45°C	+45°C
Discharge Over Temperature Protection	+60°C	+60°C	+60°C	+60°C
Low Temperature Charge Protection	0°C	0°C	0°C	0°C
Low Temperature Discharge Protection	-20°C	-20°C	-20°C	-20°C
Cell Balancing Function	Automatic Passive Cell Balancing (>3.40V/cell)	Automatic Passive Cell Balancing (>3.40V/cell)	Automatic Passive Cell Balancing (>3.40V/cell)	Automatic Passive Cell Balancing (>3.40V/cell)
Reverse Polarity Protection	Available	Available	Available	Available
BMS Monitoring Functions	SOC Monitoring, SOH Monitoring, Fault Detection, Event Logging	SOC Monitoring, SOH Monitoring, Fault Detection, Event Logging	SOC Monitoring, SOH Monitoring, Fault Detection, Event Logging	SOC Monitoring, SOH Monitoring, Fault Detection, Event Logging
Charge Temperature Range	0°C to +45°C	0°C to +45°C	0°C to +45°C	0°C to +45°C
Discharge Temperature Range	-20°C to +60°C	-20°C to +60°C	-20°C to +60°C	-20°C to +60°C
Storage Temperature Range	-10°C to +35°C	-10°C to +35°C	-10°C to +35°C	-10°C to +35°C
Relative Humidity	≤85% RH (Non-condensing)	≤85% RH (Non-condensing)	≤85% RH (Non-condensing)	≤85% RH (Non-condensing)
Cycle Life	≥3500 Cycles @ 80% Depth of Discharge (DoD)	≥3500 Cycles @ 80% Depth of Discharge (DoD)	≥3500 Cycles @ 80% Depth of Discharge (DoD)	≥3500 Cycles @ 80% Depth of Discharge (DoD)
Warranty	5 Years	5 Years	5 Years	5 Years
Approximate Weight (kg)	≤ 15 kg	≤ 27kg	≤ 40 kg	≤ 43 kg
Dimensions (L x W x H) mm	280*340*180mm	450*425*195mm	560*380*225mm	560*380*225mm
Connector Type	PPBT	Feed Through (1 IN / 2 OUT)	Feed Through (1 IN / 2 OUT)	Feed Through (1 IN / 2 OUT)
Installation Type	Wall Mounted / Floor Mounted	Wall Mounted / Floor Mounted	Wall Mounted / Floor Mounted	Wall Mounted / Floor Mounted
Cabinet Type	Wall Mounted Metal Cabinet	Wall Mounted Metal Cabinet	Wall Mounted Metal Cabinet	Wall Mounted Metal Cabinet
IP Rating	IP20	IP20	IP20	IP20
Compliance Standards	IEC 62619:2022, UN38.3 Rev.8	IEC 62619:2022, UN38.3 Rev.8	IEC 62619:2022, UN38.3 Rev.8	IEC 62619:2022, UN38.3 Rev.8
Design Basis	3.2V 100Ah LiFePO ₄ Cells	3.2V 100Ah LiFePO ₄ Cells	3.2V 100Ah LiFePO ₄ Cells	3.2V 100Ah LiFePO ₄ Cells

Due to continuous improvement, the dimensions and technical specifications can be change without prior notice

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