

LPW Series Brief Introduce

LPW Series Wall Mounted ESS (energy storage system) is a LiFePO4 battery Pack ideal for new installation of household energy storage. It's stores energy for Solar Power System or Back up Power System. It ranges from 25.6V/48.0V/51.2V and is available in 50Ah to 320Ah capacities. It's rechargeable lithium-ion battery pack. It has a longer cycle life and higher energy density than traditional lead-acid batteries. The compact design allows for easy installation and space-saving. The battery is suitable for off-grid and on-grid solar PV systems, residential and commercial energy storage, and backup power supply. It's one of the best replacement for Tesla PowerWall.

Long Life

Lithium Iron Phosphate

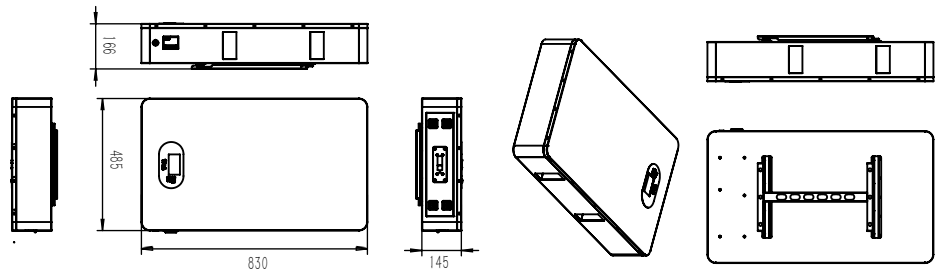
Deep Cycle



Applications

- BTS Stations, Telecom System
- Internet data center(IDC)
- Solar Energy/Off-Grid System
- Access net work system
- UPS System, EPS System
- Terminal of FTTX
- Indoor distribution system

Dimensions & Weight



Length: 830±1mm | Width: 485±1mm | Height: 145±1mm | Weight: 90.0±0.1kgs

Technical Specifications

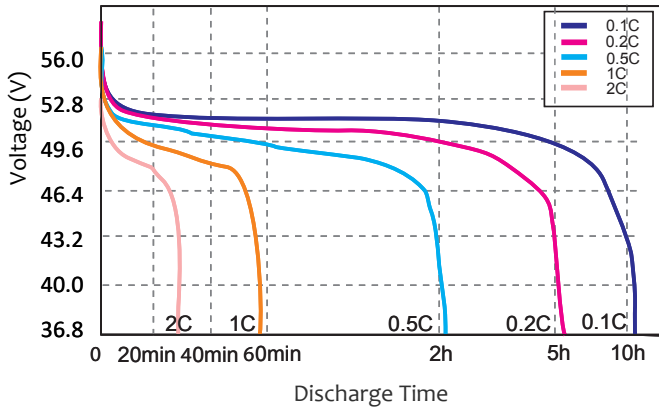
Electrical Characteristics	Nominal Voltage	51.2V
	Nominal Capacity	200Ah
	Energy	10240Wh
	BMS with internal cell balancing	YES
	Cycle Life	≥6000cycles @ 80%DOD
	Months Self Discharge	<3%
	Efficiency of Charge	100%@0.2C
Standard Charge	Efficiency of Discharge	96~99%@0.5C
	Charge Voltage	57.6V ± 0.2
	Charge Mode	0.5C to 57.6V, then 57.6V, charge current to 0.02C(CC/CV)
	Charge Current	50A
	Max. Charge Current	100A
Standard Discharge	Charge Cut-off Voltage	57.6V ± 0.2
	Continuous Current	50A
	Max continuous discharge current	100A
Environmental	Discharge Cut-off Voltage	43.2V ± 0.1
	Charge Temperature	0 °C to 45 °C (32F to 113F) @60 ± 25% Relative Humidity
	Discharge Temperature	-20 °C to 60 °C (-4F to 140F) @60 ± 25% Relative Humidity
	Storage Temperature	0 °C to 40 °C (32F to 104F) @60 ± 25% Relative Humidity
Mechanical	Water Dust Resistance	IP21
	Cell & Method	Prismatic Cell, 16S2P
	Case	Iron
	Dimensions (in./mm.)	830*485*145mm/32.69*19.1*5.71Ins
	Weight (lbs./kg.)	Approx: 90kgs/198.39lbs
	Gravimetric specific energy	113.78WH/KG
	Protocol (optional)	ModBus: CAN/RS485/RS232(OPT)
SOC (optional)	LCD	

BMS Specifications

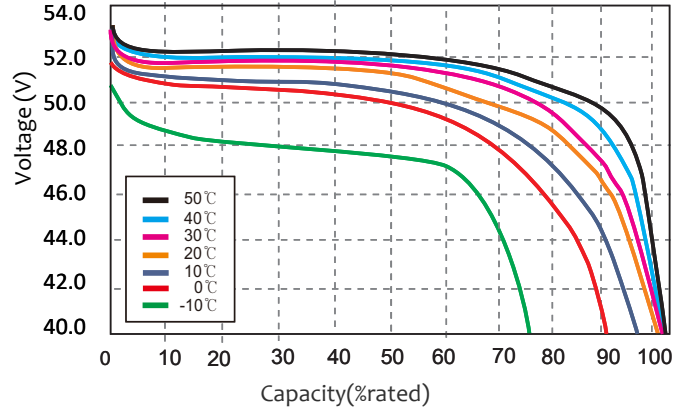
- Overcharge detection function
- Over discharge detection function
- Over current detection function
- Temperature protection
- Cell Voltage balance function
- Short detection function

Performance Characteristic (Data test from 16 Series Cell)

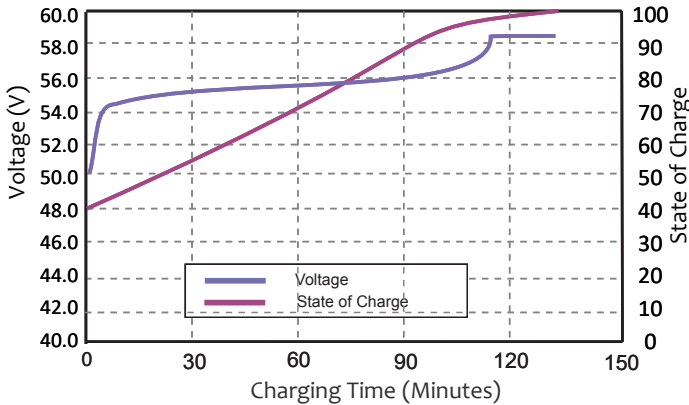
Different Rate Discharge Curve (25°C)



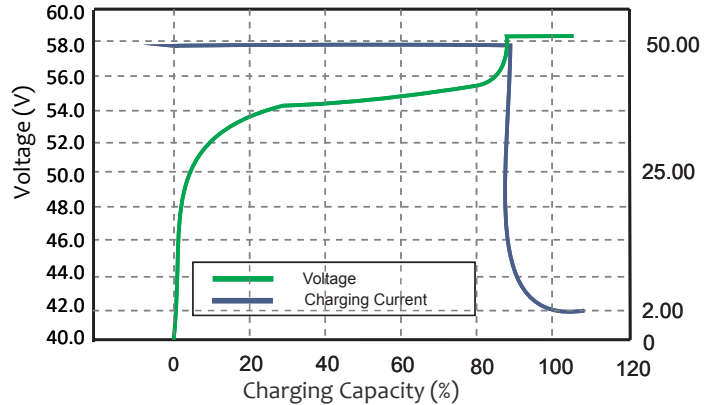
Different Temperature Discharge Curve At 0.5c



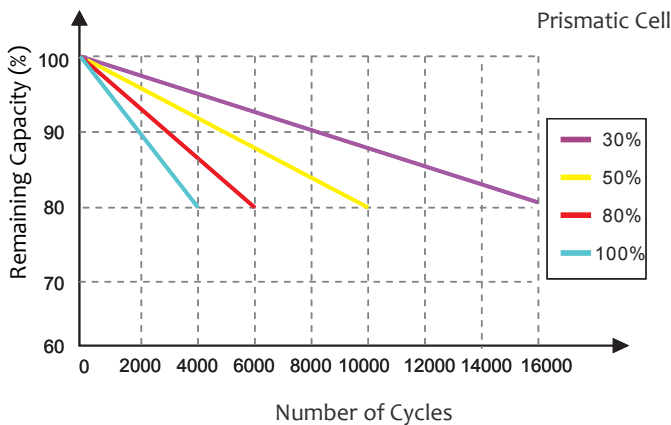
State Of Charge Curve At 0.5c (25°C)



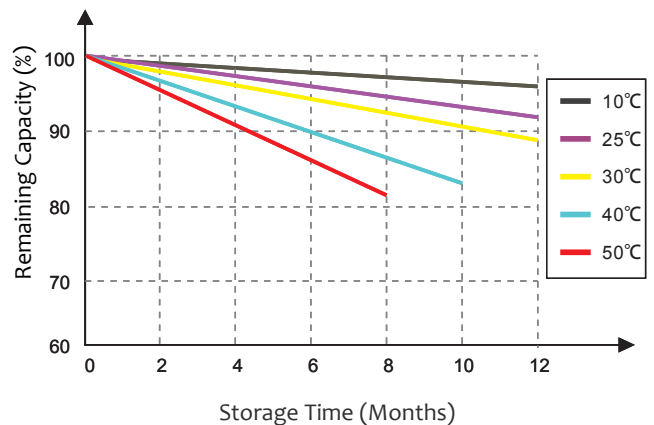
Charging Characteristics At 0.5c (25°C)



Cycle Life Curve At 1c According DoD



Self Discharge Characteristics Curve



Note: All above information shall be changed without prior notice, CSSUN reserves the right to explain and update the latest information. Welcome inquiry us!
SAFETY WARNING: Use only within the allowed parameters. Do not short circuit or over-load the battery. Charge only using an approved charger designed specifically to charge this battery. Do not heat above maximum temperatures indicated. Never crush, mutilate, puncture or abuse the battery. Do not dismantle the pack or disable any of the protective devices or circuits. Do not use the battery if you suspect it may be faulty or damaged.

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