

LPW Series Brief Introduce

Long Life

Lithium Iron Phosphate

Deep Cycle

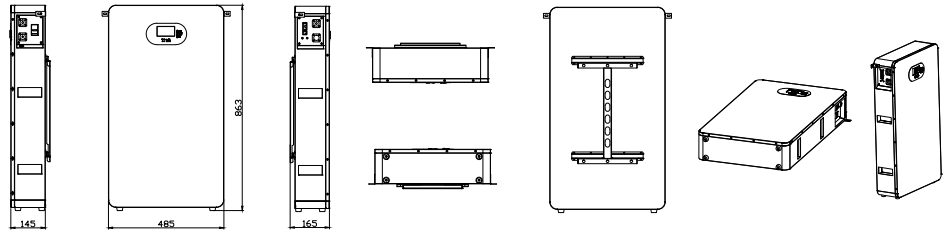
LPW Series Wall Mounted ESS (energy storage system) is a LiFePO4 battery Pack ideal for new installation of household energy storage. It's stores energy for Solar Power System or Back up Power System. It ranges from 25.6V/48.0V/51.2V and is available in 50Ah to 320Ah capacities. It's rechargeable lithium-ion 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.



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: 863±1mm Width: 485±1mm Height: 145±1mm | Weight: 90.0±0.1kgs

Technical Specifications

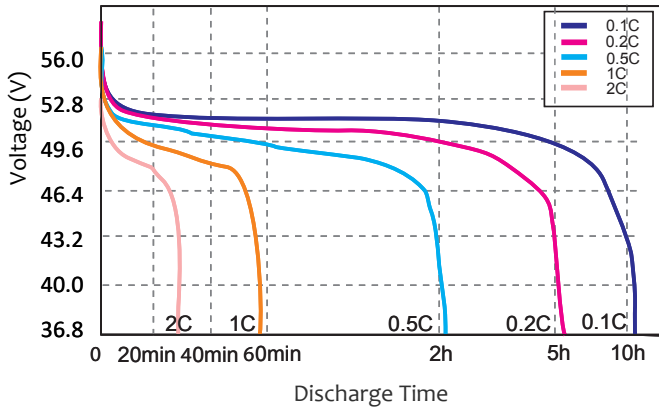
| | | |
|-----------------------------------|----------------------------------|---|
| Electrical Characteristics | Nominal Voltage | 51.2V |
| | Nominal Capacity | 200Ah |
| | Energy | 10240Wh |
| | BMS with internal cell balancing | YES |
| | Cycle Life | ≥6000cycles @ 80%DOD |
| | Months Self Discharge | <3% |
| | Efficiency of Charge | 100%@0.2C |
| | Efficiency of Discharge | 96~99%@0.5C |
| Standard Charge | 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 |
| | Charge Cut-off Voltage | 57.6V ± 0.2 |
| Standard Discharge | Continuous Current | 50A |
| | Max continuous discharge current | 100A |
| | Discharge Cut-off Voltage | 43.2V ± 0.1 |
| Environmental | 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 |
| | Water Dust Resistance | IP21 |
| Mechanical | Cell & Method | Prismatic Cell, 16S2P |
| | Case | Iron |
| | Dimensions (in./mm.) | 863*485*145mm/33.99*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

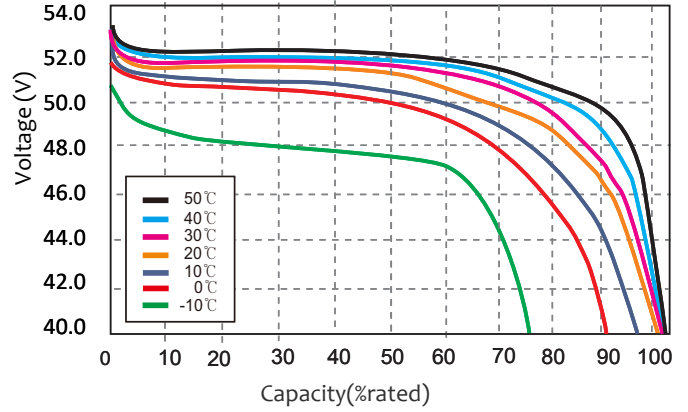
- Overcharge detection function
- Over discharge detection function
- Over current detection function
- Temperature protection
- Cell Voltage balance function
- Short detection function

Performance Characteristic (Data test from 16 Series Cell)

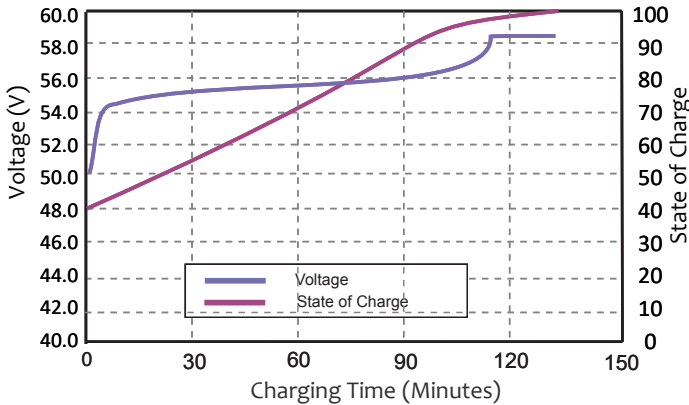
Different Rate Discharge Curve (25°C)



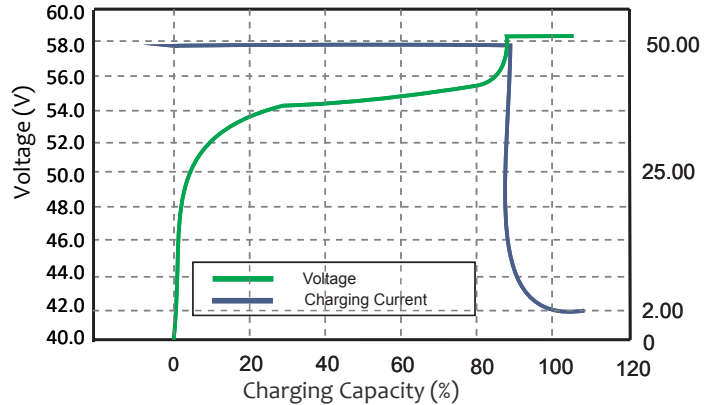
Different Temperature Discharge Curve At 0.5c



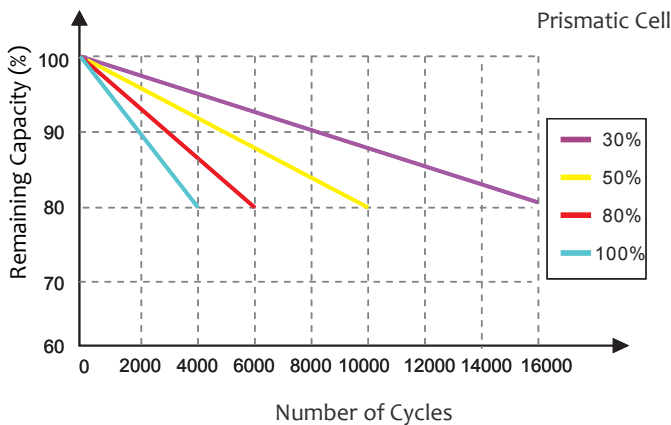
State Of Charge Curve At 0.5c (25°C)



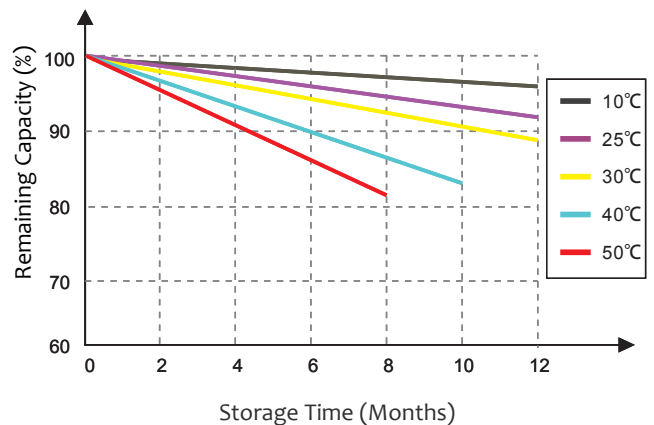
Charging Characteristics At 0.5c (25°C)



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.

Add: Introduction Building, Xingdong Industry Park, Bao'an District, Shenzhen, Guangdong, China
 Tel: +86-755-29123661 | email: sales@cssun.net | support@cssun.net | website: www.cssun.net