

LiFePO4 Battery Power Wall Battery

LPW Series Wall Mounted Battery
LiFePO4 Lithium Cell + Smart BMS
For Home Power System, Solar, Back Up ...



LPW Series Brief Introduce

LPW series Power Wall battery system is 48V system for communications back-up type LiFePO4 (lithium iron phosphate) battery products, the system uses the advanced LiFePO4 battery technology with the benefit of long cycle life, small size, light weight, safety and environmental protection, and has a strong environmental adaptability, it is idea for harsh outdoor environments.

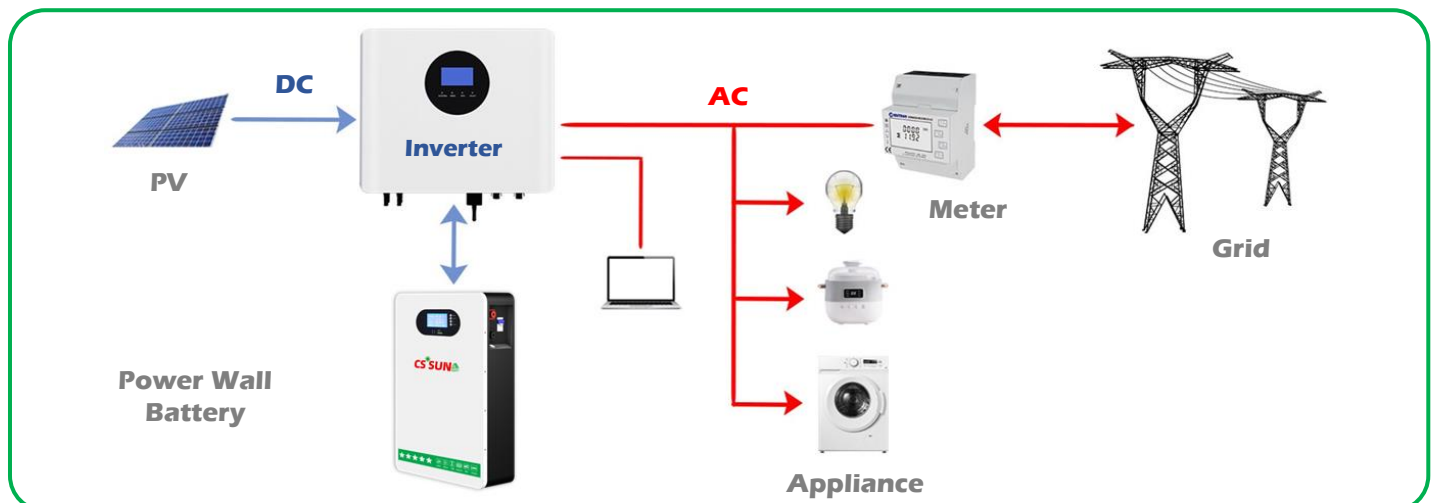
The system also integrates a smart battery management and monitoring module, support for remote centralized monitoring and remote battery management and maintenance, to meet the requirements of unattended. Therefore, the LPW system can fully meet the backup power supply requirements of the access network equipment, mobile communications equipment, transmission equipment, micro base stations and microwave communication equipment.

Application Block Diagram

Safety

Long Life

Smart



Technical Specifications

Model	Voltage (V)	Capacity (Ah)	Dimension (mm)			Weight kgs	Square Cell	
			L	W	H		connect	Cycles
LPW24V100	25.6V	100Ah	330	505	145	25kgs	8S1P	≥6000 80%DOD
LPW24V200	25.6V	200Ah	380	580	170	38kgs	8S2P	≥6000 80%DOD
LPW48V50H	51.2V	100Ah	380	580	170	43kgs	16S1P	≥6000 80%DOD
LPW48V100	48.0V	100Ah	380	580	170	41kgs	15S1P	≥6000 80%DOD
LPW48V200	48.0V	200Ah	800	600	250	78kgs	15S1P	≥6000 80%DOD
LPW48V100H	51.2V	100Ah	380	580	170	43kgs	16S1P	≥6000 80%DOD
LPW48V150H	51.2V	150Ah	750	580	170	62kgs	16S1P	≥6000 80%DOD
LPW48V200H	51.2V	200Ah	800	600	250	82kgs	16S1P	≥6000 80%DOD
LPW48V250H	51.2V	250Ah	950	950	300	100kgs	16S1P	≥6000 80%DOD
LPW48V280H	51.2V	280Ah	780	435	232.5	114kgs	16S1P	≥6000 80%DOD
LPW48V300H	51.2V	300Ah	780	435	232.5	121kgs	16S1P	≥6000 80%DOD
LPW48V314H	51.2V	314Ah	780	435	232.5	123kgs	16S1P	≥8000 80%DOD
LPW24V100-SP	25.6V	100Ah	387	368	150	30kgs	8S1P	≥6000 80%DOD
LPW48V100H-SP	51.2V	100Ah	635	370	150	48kgs	16S1P	≥6000 80%DOD
LPW48V200H-SP	51.2V	200Ah	830	520	160	99kgs	16S2P	≥6000 80%DOD
LPW48V200H-SPW	51.2V	200Ah	950	550	175	102kgs	16S2P	≥6000 80%DOD

*NOTE: All Above details shall be changed without prior notice, CSSUN reserves the right to explain & update the latest information.

Applications

- Home Solar Energy
- Off-Grid/Hybrid Solar System
- Residential BTS Stations
- Wind Energy System
- Telecom System, BT Tower
- UPS System, EPS System

General Features

- Quick installation
- Build in Smart BMS
- Multiple battery modules, max 16pcs parallel
- Able to operate at -20~60°C
- Prismatic Cell, ≥ 6000 times Cycles
- Long life high stability under high-temp.

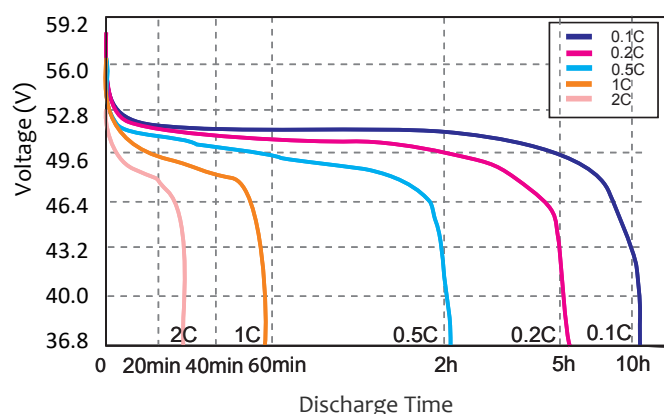


Battery BMS Specifications

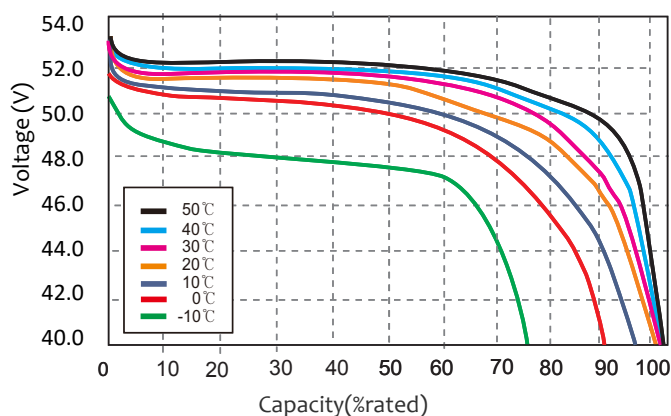
- Overcharge detection function
- Over discharge detection function
- Over current detection function
- Temperature protection
- Cell Voltage balance function
- Short detection function

Battery Performance Characteristics (Data test from 16 Series Cell)

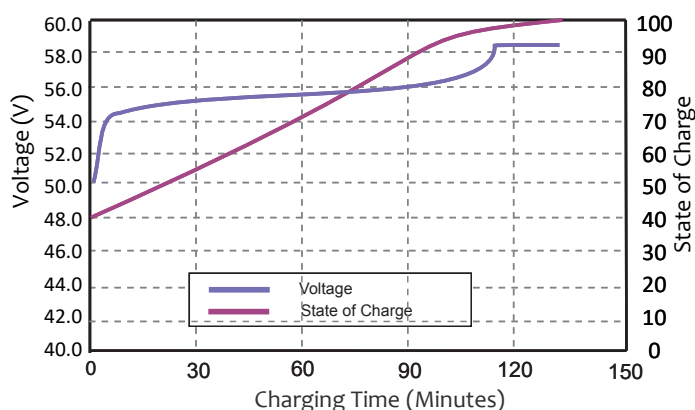
Different Rate Discharge Curve (25°C)



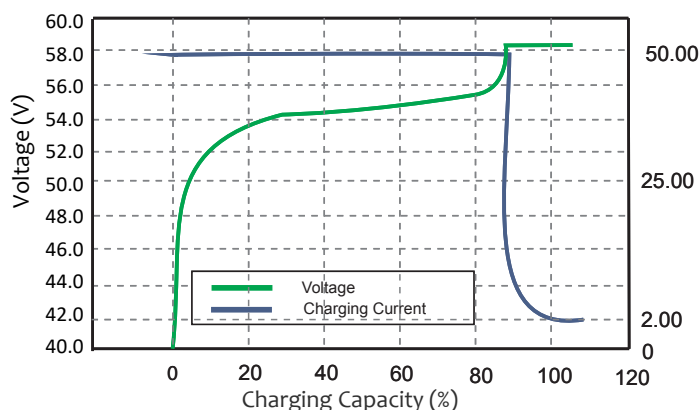
Different Temperature Discharge Curve At 0.5c



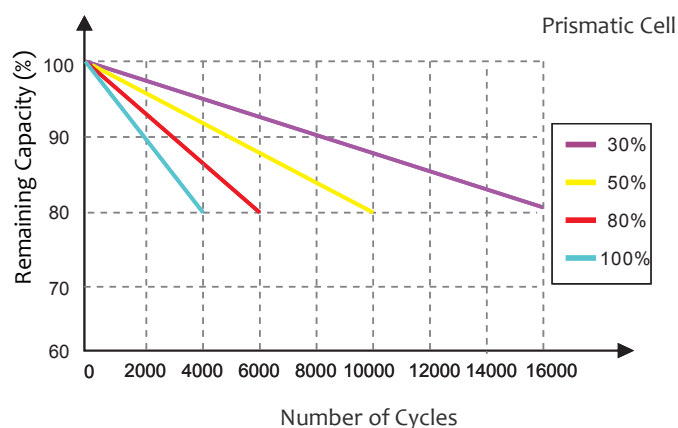
State Of Charge Curve At 0.5c (25°C)



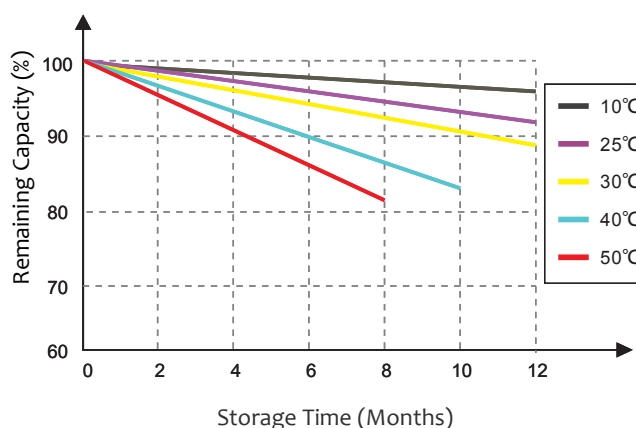
Charging Characteristics At 0.5c (25°C)



Cycle Life Curve At 1c According DoD



Self Discharge Characteristics Curve



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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.