

# 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.

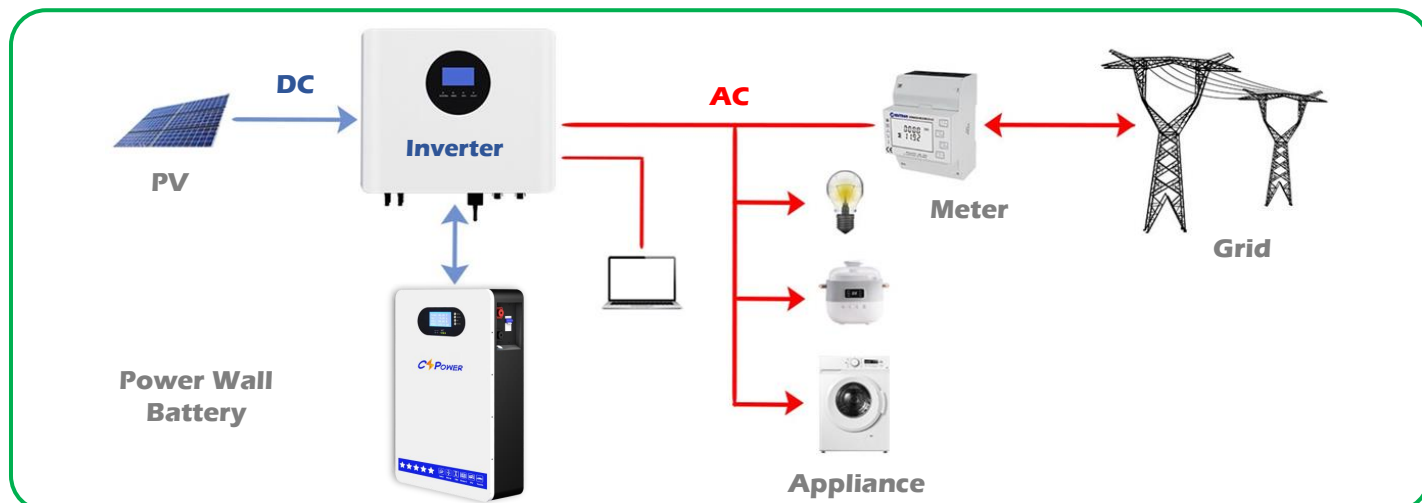
The system also integrates a smart battery management and monitoring module, support for remote centralized monitoring and remote battery management and maintenance, to meet the requirements of unattended. Therefore, the LPW system can fully meet the backup power supply requirements of the access network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

## Application Block Diagram

Safety

Long Life

Smart



### Technical Specifications

| Model          | Voltage<br>(V) | Capacity<br>(Ah) | Dimension (mm) |     |       | Weight<br>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 |
| LPW48V320H     | 51.2V          | 320Ah            | 780            | 435 | 232.5 | 123kgs        | 16S1P       | ≥6000 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, CSPower 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.

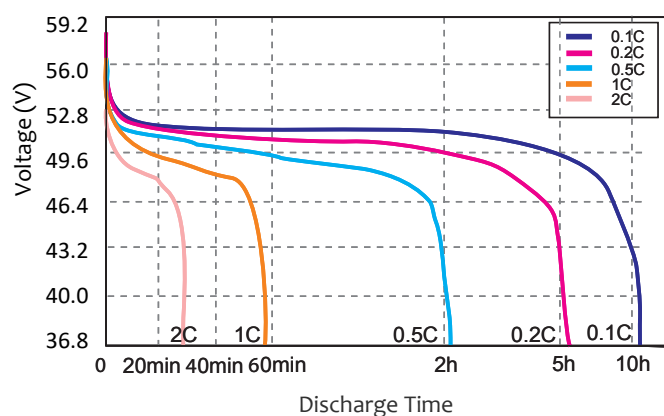


### Battery BMS Specifications

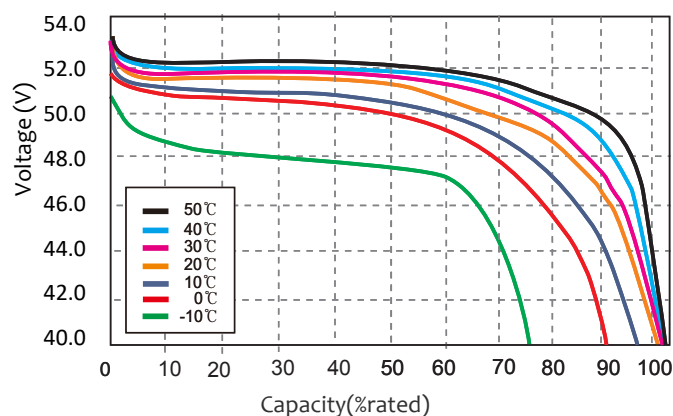
- Overcharge detection function
- Over discharge detection function
- Over current detection function
- Temperature protection
- Cell Voltage balance function
- Short detection function

### Battery Performance Characteristics (Data test from 16 Series Cell)

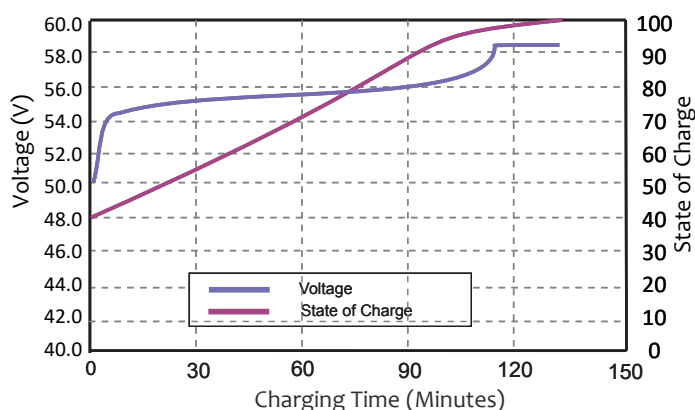
#### Different Rate Discharge Curve (25°C)



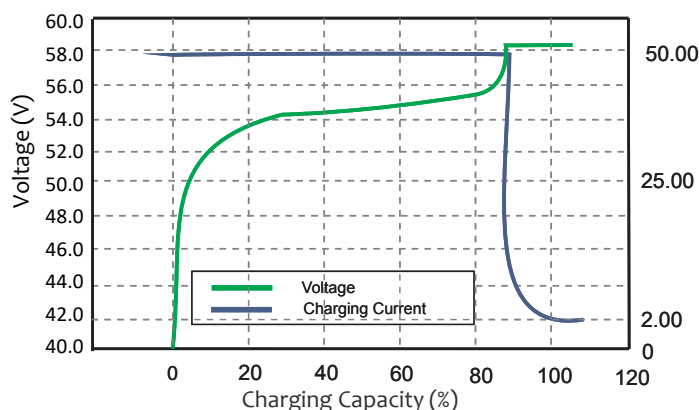
#### Different Temperature Discharge Curve At 0.5c



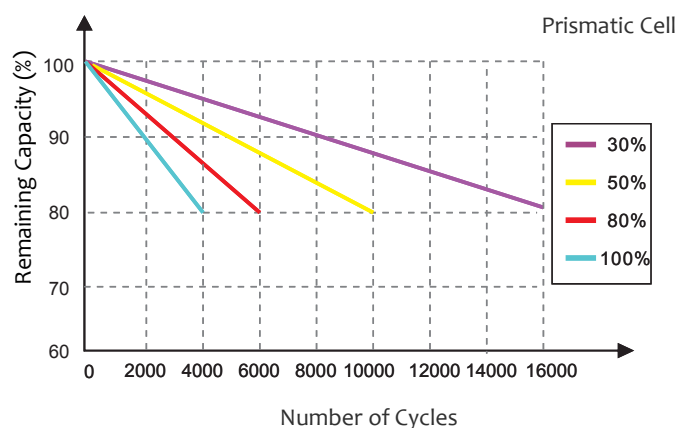
#### State Of Charge Curve At 0.5c (25°C)



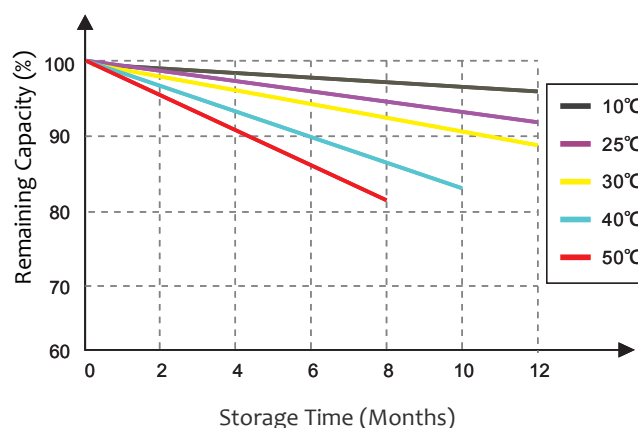
#### Charging Characteristics At 0.5c (25°C)



#### 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.