

UP Stand Movable LiFePO4 Lithium Battery Pack

LPUS48V280H-SP
51.2V280Ah 14.3KWh
Energy Storage Solutions



LPUS Series Brief Introduce

LPUS Series UP Standing Movable lithium battery pack is a household energy storage solution that provides reliable and efficient power for homes. It features a high-capacity lithium-ion battery that stores renewable energy from solar panels or the grid, reducing energy consumption costs and ensuring constant power supply during emergencies. The battery's sleek and compact design allows for easy installation and maintenance. With its user-friendly interface, users can monitor their energy usage and optimize energy management. This product is ideal for homeowners who want to reduce their carbon footprint and gain greater control over their energy consumption while enjoying uninterrupted power supply. With the wheels it's move easily.

Long Life

Lithium Iron Phosphate

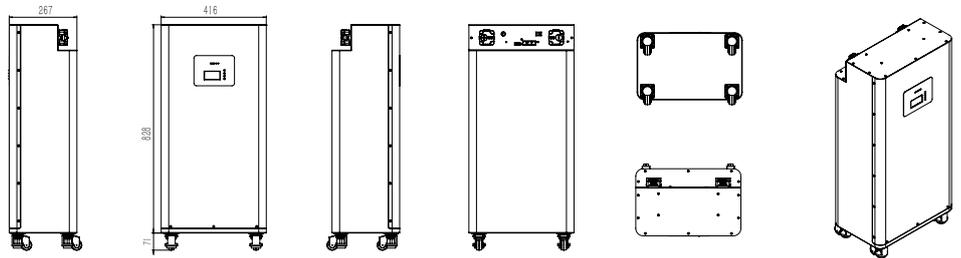
Deep Cycle



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: 416±1mm | Width: 267±1mm | Height: 828±1mm | Weight: 113.0±0.1kgs

Technical Specifications

| | | |
|-----------------------------------|----------------------------------|---|
| Electrical Characteristics | Nominal Voltage | 51.2V |
| | Nominal Capacity | 300Ah |
| | Energy | 15.36KWh |
| | 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 | 0.2C to 57.6V, then 57.6V, charge current to 0.02C(CC/CV) |
| | Charge Current | 100A |
| | Max. Charge Current | 200A |
| | Charge Cut-off Voltage | 57.6V±0.2 |
| Standard Discharge | Continuous Current | 100A |
| | Max continuous discharge current | 200A |
| | 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 3.2V300ah 16S1P |
| | Case | Iron |
| | Dimensions (in./mm.) | 416*267*828mm/16.38*10.51*32.61Ins |
| | Weight (lbs./kg.) | Approx: 113kgs/249.09lbs |
| | Gravimetric specific energy | 126.87WH/KG |
| | Protocol (optional) | ModBus: CAN/RS485/RS232(OPT) |
| | SOC (optional) | Touch LCD |

Inverters Support Brands: GROWATT solis PYLONTECH MEGAREVO STUDEJ Volttronic Power MUST美世乐 victron energy GOODWE

SACOLAR KSTAR科士达 invt英威腾 Schneider Electric Deye 德业 泰阳储能 IYANG SOFAR SOLAR LU POWERTEK FOX ESS SRNE

Durable Lithium Battery use CSSUN

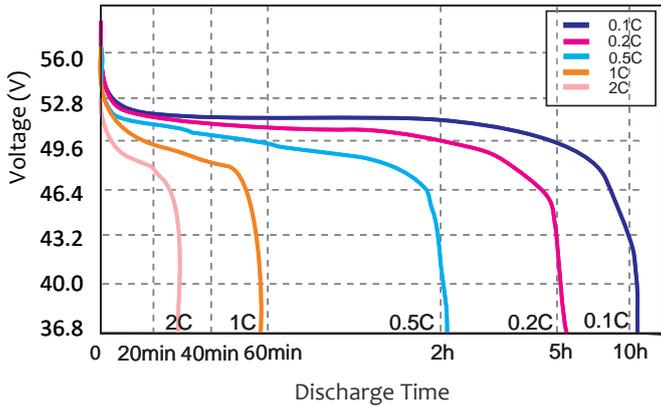
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BMS Specifications

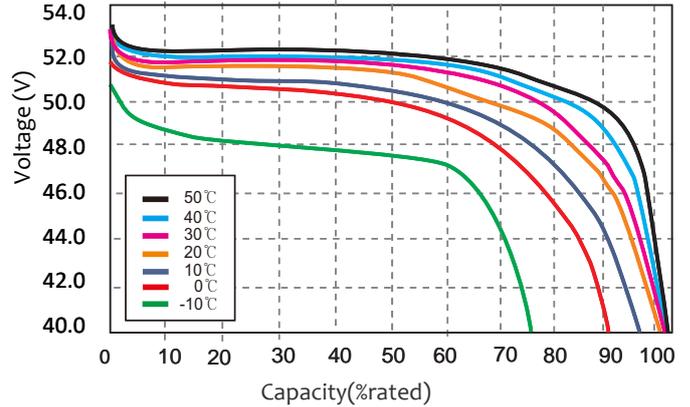
- Overcharge detection function
- Over discharge detection function
- Over current detection function
- Temperature protection
- Cell Voltage balance function
- Short detection function

Performance Characteristic (Data test from 16 Series Cell)

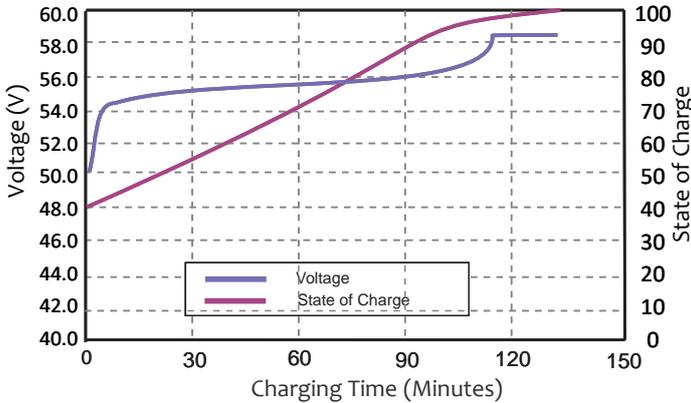
Different Rate Discharge Curve (25°C)



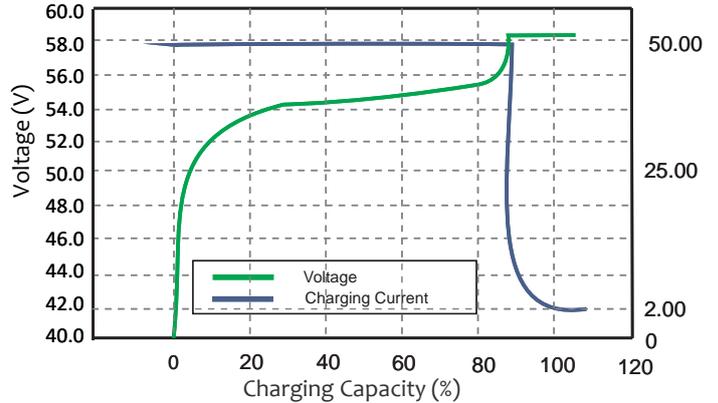
Different Temperature Discharge Curve At 0.5c



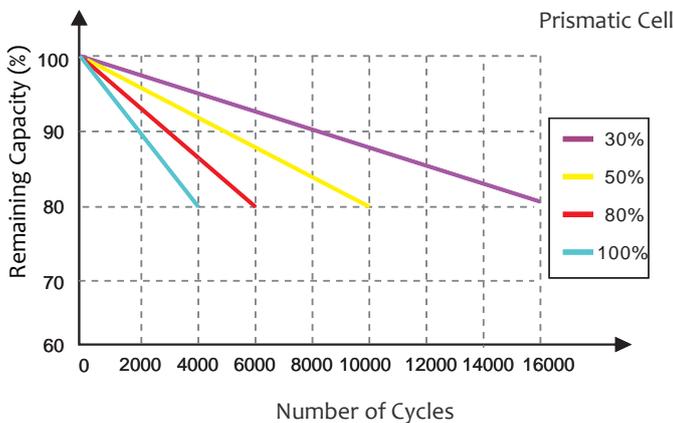
State Of Charge Curve At 0.5c (25°C)



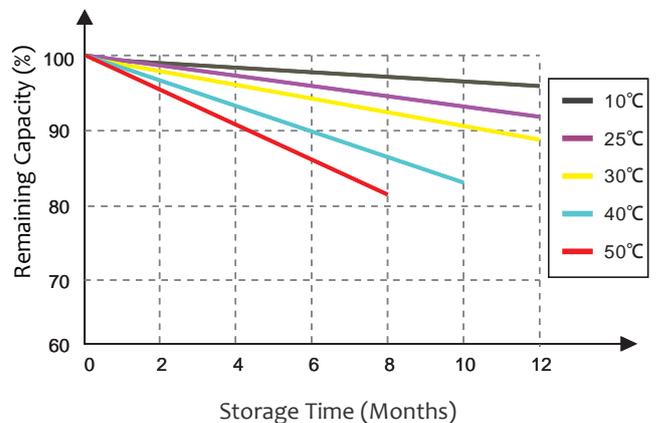
Charging Characteristics At 0.5c (25°C)



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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