

# LiFePO4 Battery Server Rack Battery

LPR Series 19' Server Rack Battery  
LiFePO4 Lithium Cell + Smart BMS  
For Telecom, Data Center, Solar, Back Up ...



## LPR Series Brief Introduce

Safety

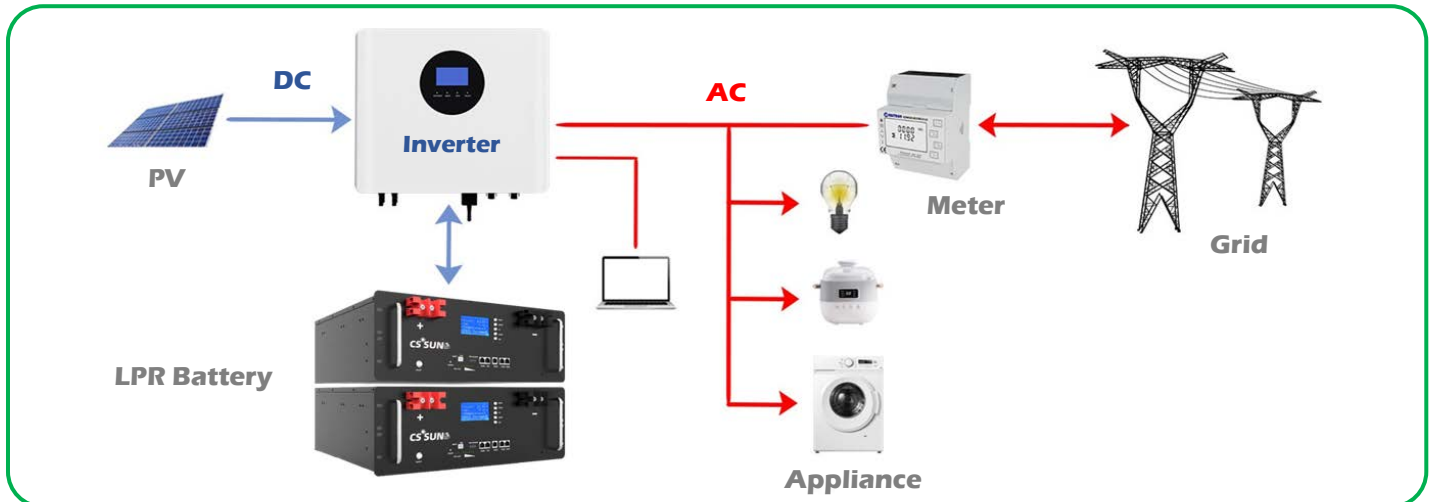
Long Life

19' Stand

LPR Series 19-inch server rack low voltage lithium battery is a versatile power solution designed for high-density energy storage in server rooms and data centers. These batteries typically offer capacities ranging from 25.6V100ah-400ah, 51.2V50Ah to 320Ah, providing a scalable and reliable backup power source. They are known for their compact design, which allows for efficient use of space within 19-inch server racks. With advanced lithium-ion technology, these batteries deliver high energy density, rapid charge/discharge capabilities, and a longer cycle life compared to traditional lead-acid batteries. They are also favored for their low maintenance requirements and enhanced safety features, making them an eco-friendly and cost-effective choice for various applications.



## Application Block Diagram



## Technical Specifications

Model	Voltage (V)	Capacity (Ah)	Dimension (mm)			Weight kgs	connect	Cell Cycles
			L	W	H			
LPR12V50	12.8V	50Ah	390	442	45	11kgs	4S1P	≥6000 80%DOD
LPR12V100	12.8V	100Ah	365	442	88	15kgs	4S1P	≥6000 80%DOD
LPR12V200	12.8V	200Ah	269	442	133	25kgs	4S2P	≥6000 80%DOD
LPR24V50	25.6V	50Ah	365	442	88	16kgs	8S1P	≥6000 80%DOD
LPR24V100	25.6V	100Ah	269	442	133	25kgs	8S1P	≥6000 80%DOD
LPR24V200	25.6V	200Ah	420	442	133	40kgs	8S2P	≥6000 80%DOD
LPR24V400	25.6V	400Ah	420	442	226	80kgs	8S4P	≥6000 80%DOD
LPR24V560	25.6V	560Ah	715	442	231	109kgs	8S2P	≥6000 80%DOD
LPR48V50	48.0V	50Ah	269	442	133	22kgs	15S1P	≥6000 80%DOD
LPR48V100	48.0V	100Ah	420	442	133	38kgs	15S1P	≥6000 80%DOD
LPR48V150	48.0V	150Ah	600	442	133	54kgs	15S1P	≥6000 80%DOD
LPR48V200	48.0V	200Ah	420	442	226	78kgs	15S1P	≥6000 80%DOD
LPR48V50H	51.2V	50Ah	405	442	133	23kgs	16S1P	≥6000 80%DOD
LPR48V100H	51.2V	100Ah	420	442	133	40kgs	16S1P	≥6000 80%DOD
LPR48V150H	51.2V	150Ah	600	442	133	56kgs	16S1P	≥6000 80%DOD
LPR48V200H	51.2V	200Ah	420	442	226	80kgs	16S1P	≥6000 80%DOD
LPR48V280H	51.2V	280Ah	715	442	231	109kgs	16S1P	≥6000 80%DOD
LPR48V300H	51.2V	300Ah	715	442	231	112kgs	16S1P	≥6000 80%DOD
LPR48V320H	51.2V	320Ah	715	442	231	115kgs	16S1P	≥6000 80%DOD

## Applications

- Solar Energy
- Off-Grid Solar System
- BTS Stations
- Telecom System, BT Tower
- Wind Energy System
- UPS System, EPS System

## General Features

- Quick installation, standard of 19-inch
- Build in Smart BMS
- Multiple battery modules, max 16pcs parallel
- Able to operate at -20~60°C
- ≥ 6000 times Cycles Prismatic Cell
- Long life high stability under high-temp.

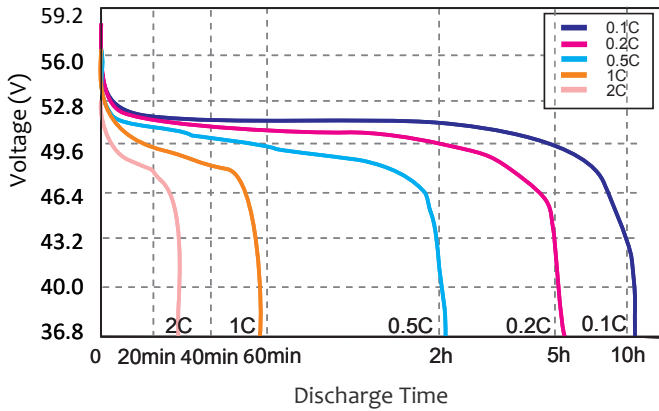


## Battery BMS Specifications

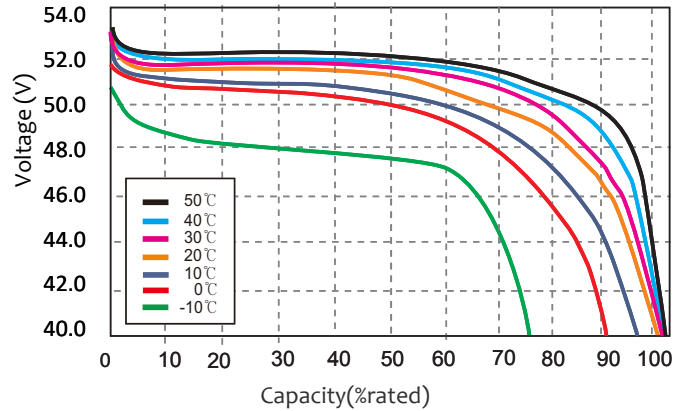
- Overcharge detection function
- Over discharge detection function
- Over current detection function
- Temperature protection
- Cell Voltage balance function
- Short detection function

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

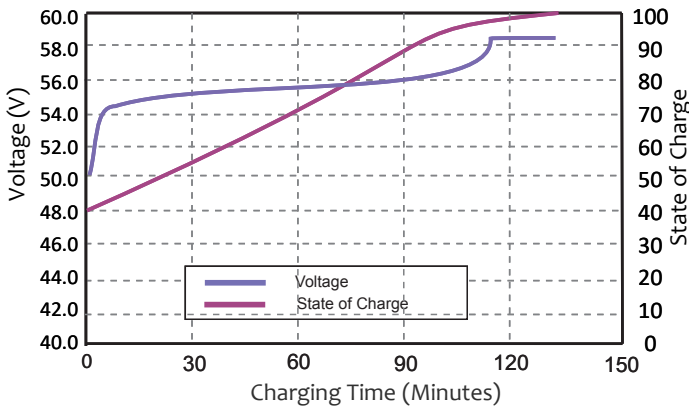
### Different Rate Discharge Curve (25°C)



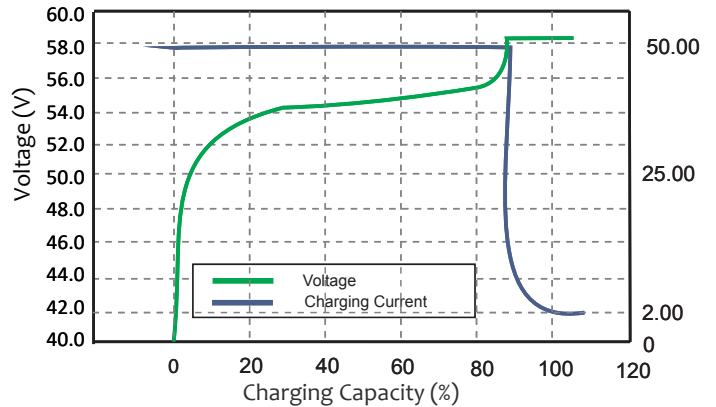
### Different Temperature Discharge Curve At 0.5c



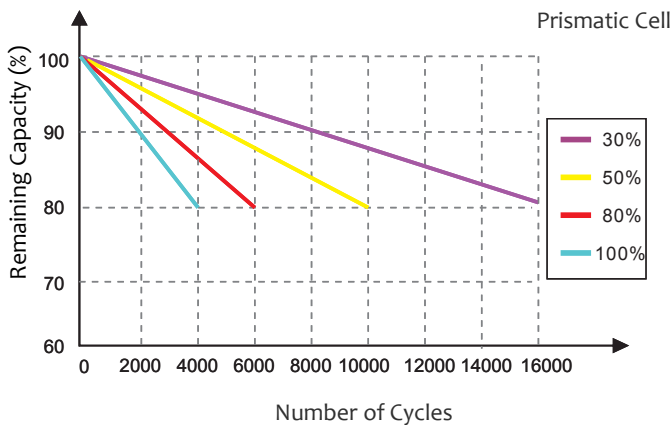
### State Of Charge Curve At 0.5c (25°C)



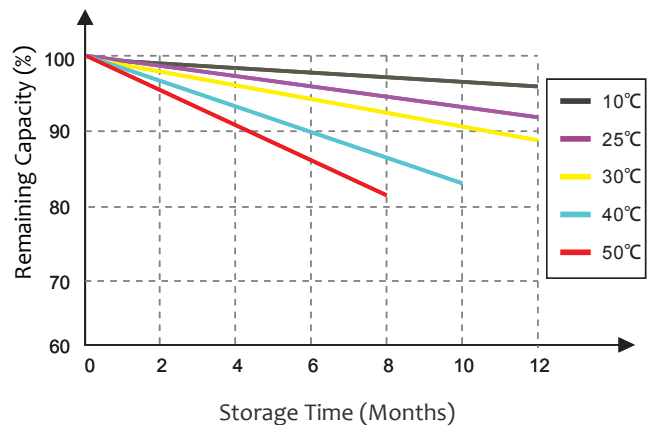
### Charging Characteristics At 0.5c (25°C)



### Cycle Life Curve At 1c According DoD



### Self Discharge Characteristics Curve



**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.