

## LPR Series Brief Introduce

LPR Series 19' Rack Mounted Rechargeable LiFePO4 Lithium Battery is a safety and reliable solution for providing energy storage in industrial applications such as data centers and telecom base stations. Low voltage offer multiple nominal voltages (12.8V/25.6V/38.4V/48.0V/51.2V etc.). With its high energy density, fast recharge time and compact design, this battery provides a highly efficient and cost-effective energy storage option for a range of applications in the industry. The 19-inch standard Rack Mount Lithium Battery is easy to install, scalable, space-efficient, and compatible with other equipment. It's popular in Lithium Solar Batteries system, Home Solar Energy storage system and SME (Small Medium Enterprise).

Long Life

Lithium Iron Phosphate

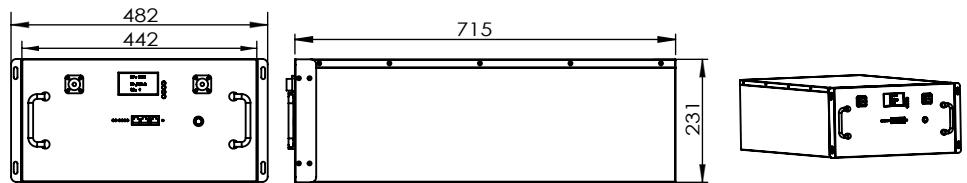
Deep Cycle



## 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: 715 ± 1mm Width: 442 ± 1mm Height: 231 ± 1mm
- Weight: 104.0 ± 0.1kgs

## Technical Specifications

<b>Electrical Characteristics</b>	Nominal Voltage	51.2V
	Nominal Capacity	280Ah
	Energy	14336Wh
	BMS with internal cell balancing	YES
	Cycle Life	> 6000cycles 800%DOD
	Months Self Discharge	< 3%
	Efficiency of Charge	100% @ 0.2C
	Efficiency of Discharge	96~99% @ 0.5C
<b>Standard Charge</b>	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	50A
	Max. Charge Current	100A
	Charge Cut-off Voltage	57.6V ± 0.2
<b>Standard Discharge</b>	Continuous Current	50A
	Max continuous discharge current	100A
	Discharge Cut-off Voltage	43.2V ± 0.1
<b>Environmental</b>	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
<b>Mechanical</b>	Cell & Method	Prismatic Cell 3.2V280ah 16S1P
	Case	Iron
	Dimensions (in./mm.)	442*715*231mm/17.41*28.16*9.1ins
	Weight (lbs./kg.)	Approx: 104kgs/229.25lbs
	Gravimetric specific energy	137.85WH/KG
	Protocol (optional)	ModBus: CAN/RS485/RS232(OPT)
	SOC (optional)	LCD

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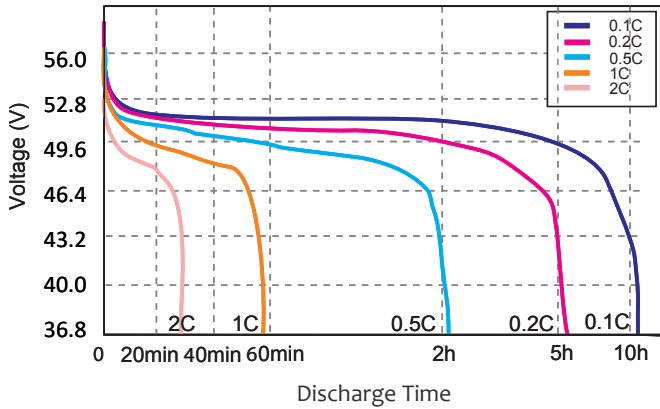
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## BMS Specifications

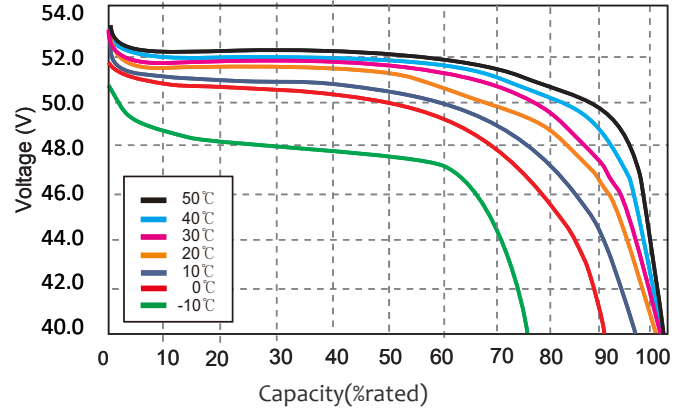
- Overcharge detection function
- Over discharge detection function
- Over current detection function
- Temperature protection
- Cell Voltage balance function
- Short detection function

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

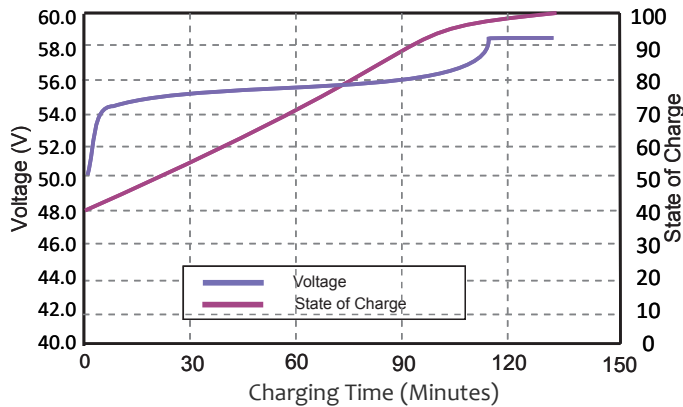
### Different Rate Discharge Curve (25°C)



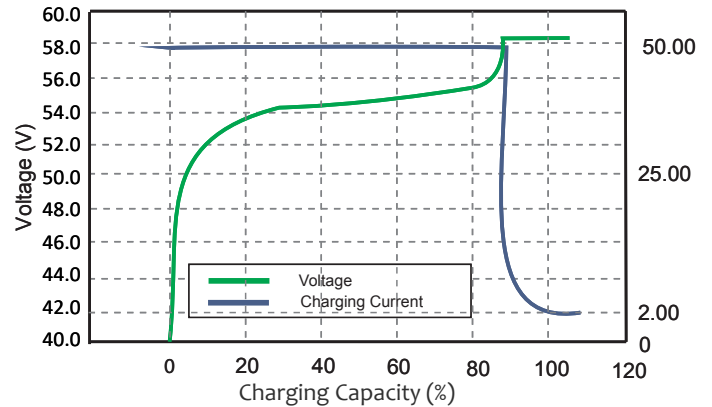
### Different Temperature Discharge Curve At 0.5c



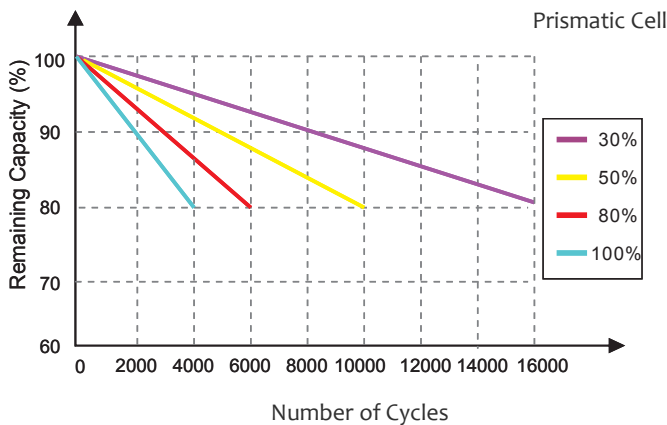
### State Of Charge Curve At 0.5c (25°C)



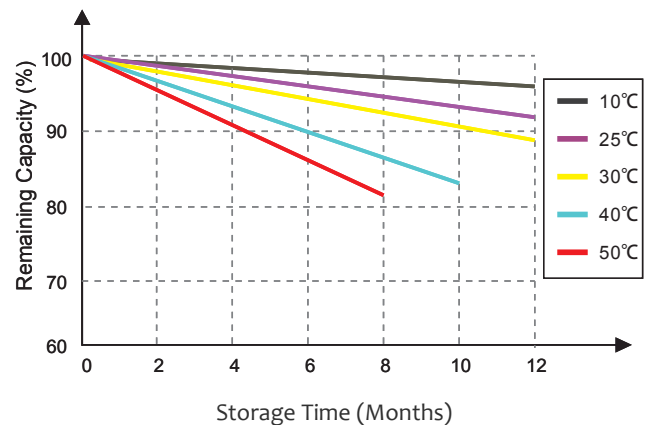
### Charging Characteristics At 0.5c (25°C)



### Cycle Life Curve At 1c According DoD



### Self Discharge Characteristics Curve



**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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