



LITHIUM-ION Battery Pack (LiFePo4)

Affordable Lithium Battery for Power Storage and Replacement.
(Specification)



Long Battery Life

Lithium-ion battery has 2,000+ charge cycles at 100% DOD. This means fewer battery replacements.



More Safety

Built-in BMS, automatic protection system to prevent over-charge, over-discharge, over-current and over-temperature



Light Weight

Approximately 40% ~50% of the weight of the lead-acid battery



Simplified Operations

Without complicated charging process, opportunistic charging will not shorten battery life. Drop-in replacement of lead-acid batteries

Applications

- ▶ UPS backup power
- ▶ Solar and wind system
- ▶ RV, Marina, Golf car
- ▶ Camping and Overland
- ▶ Electric vehicle



LiFePO4 Battery Pack

Model	PB12.8V52AH	PB12.8V100AH	PB12.8V150AH	PB12.8V200AH
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Electrical Parameters

Voltage	12.8V	12.8V	12.8V	12.8V
Capacity	52Ah@0.2C	100Ah@0.2C	150Ah@0.2C	200Ah@0.2C
Energy	691.2Wh	1280Wh	1920Wh	2560Wh
Resistance	50≤mΩ	45≤mΩ	40≤mΩ	35≤mΩ
Cycle Life	2000-3000 (Cycle Life @ 100% Depth of Discharge)			
Self Discharge	<3.5% (Monthly@25°C)			

Standard Charge

Charging Voltage	14.0~14.6V	14.0~14.6V	14.0~14.6V	14.0~14.6V
Charging Mode	In the 0°C~45°C environment, 0.2C5A constant current charge to 14.6V, then 14.6V constant voltage charge until the current drops to 0.02C5A and then stop			
Charging Current	10.8A	20A	30A	40A
Max Charging Voltage	27A	50A	75A	100A

Standard Discharge

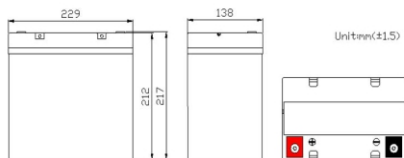
Discharge Current	10.8A	20A	30A	40A
Continuous Discharge Current	54A	100A	100A	100A
Pulse Discharge Current	120A(<3S)	200A(<3S)	200A(<3S)	200A(<3S)
Discharge Cut-off Current	10.0	10.0	10.0	10.0

Operation and Storage

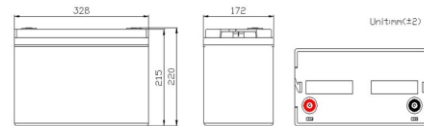
Charge Temp.	0°C to 45°C(32°F to 113°F) @60±25% humidity			
Discharge Temp.	-20°C to 60°C(-4°F to 140°F) @60±25% humidity			
Storage Temp.	0°C to 45°C(32°F to 113°F) @60±25% humidity			
IP Class	IP55			

Physical Parameters

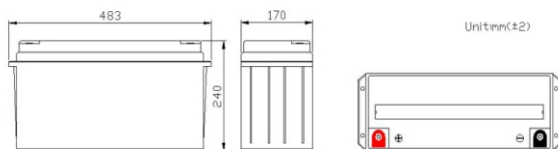
Cell & Combination Method	IFR26650, 4S13P	IFR26650, 4S25P	IFR26650, 4S39P	IFR26650, 4S50P
Material	ABS	ABS	ABS	ABS
Dimension (L*W*H)	229*138*212*217mm	328*172*215*220mm	483*170*240*240mm	522*238*218*220mm
N.Weight	6.7Kg	13.1Kg	19.2Kg	27Kg
Terminal	M6	M8	M8	M8



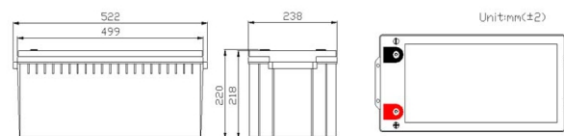
PB12.8V52AH



PB12.8V100AH



PB12.8V150AH

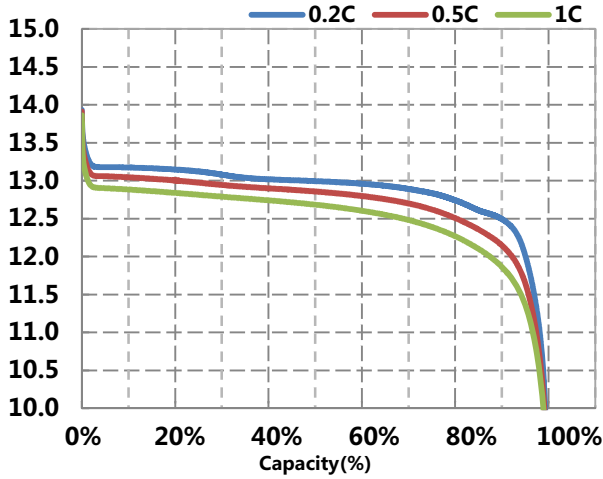


PB12.8V200AH

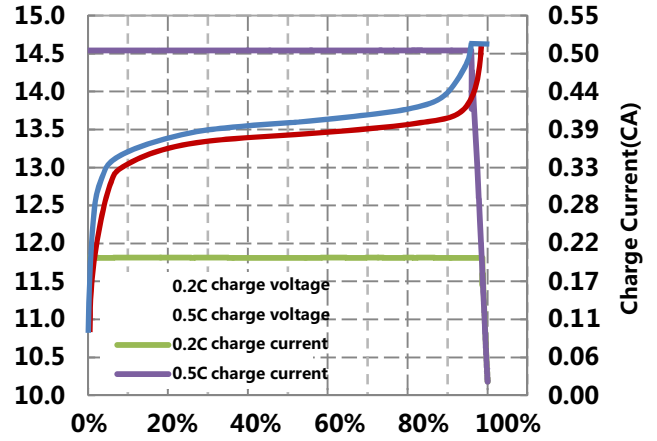


Charge and Discharge Performance

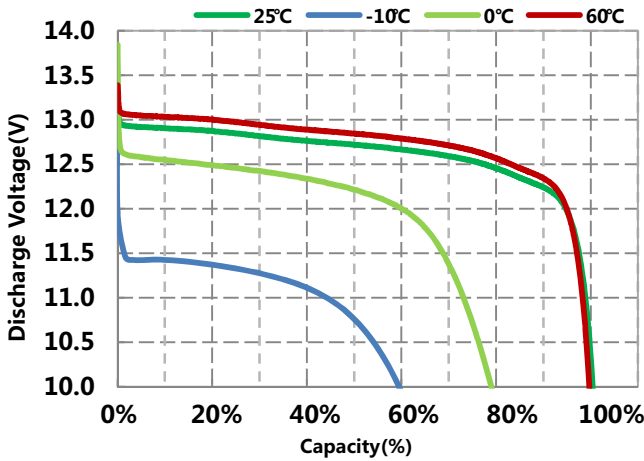
Discharge Chart @25°C



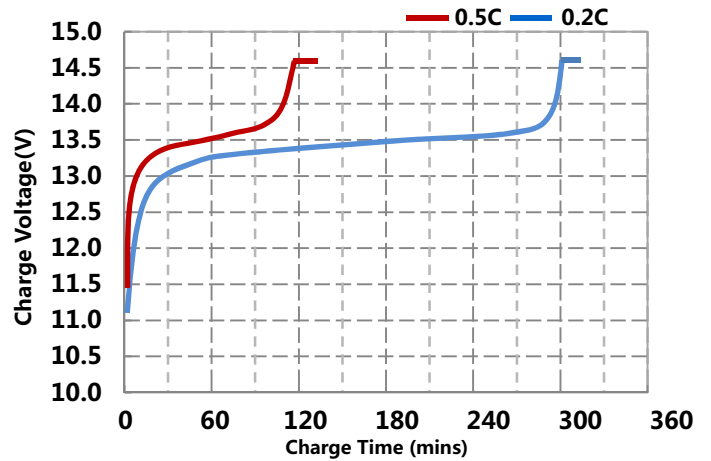
Capacity - Voltage @0.2C&0.5C, 25°C



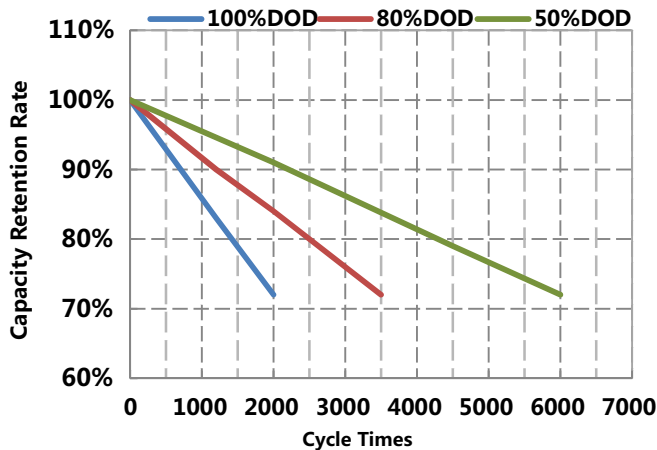
Discharge Charts in diff. Temp. @0.5C, 25°C



Charge Time - Voltage @0.2C&0.5C, 25°C



DOD(%) - Cycle times @0.2C, 25°C



Open Circuit Voltage - Amount of Charge 25°C

