

**LiFePO4**

Voltage: 12V | Capacity: 100Ah | Energy: 1280Wh

## Lithium Iron Phosphate Battery

### ELECTRICAL CHARACTERISTICS

Nominal Voltage	12.8V
Nominal Capacity	100Ah
Capacity @ 25A	240min
Internal Resistance @100%SOC	30mΩ
Cycle Life @1C 100%DOD	>4000 cycles
Efficiency of Charge @0.5C	100%
Efficiency of discharge @0.5C	96-99%
Self Discharge	<3% per Month

### MECHANICAL SPECIFICATIONS

Dimensions(L x W x H/TH) (mm)	328 x 172 X 210 /220
Approx.Weight (Kg)	10.8
Terminal Type	M8
QTY in series(Battery)	2PCS or Optional
Case Material	ABS
Enclosure Protection	IP66
Cell Type - Chemistry	quadrat e - LiFePO <sub>4</sub>

### CHARGE CHARACTERISTICS

Standard Charge Current (0.2C)	20A
Recommended Charge Current (0.5C)	50A
Maximum Charge Current	100A
Recommended Charge Voltage	14.0V - 14.6V
BMS Charge Voltage Cut-Off	15.6V(3.9±0.025vpc)
Reconnect Voltage	15.2V(3.8±0.05vpc)
Balancing Voltage	14.4V(3.6vpc)
Charge Mode @ 0.2C to 14.6V	CC-CV

### DISCHARGE CHARACTERISTICS

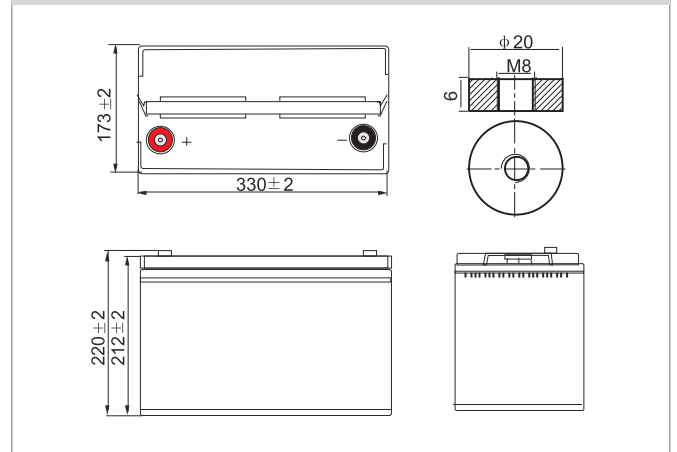
Maximum Continuous Discharge Current	100A
Peak Discharge Current	120A(<3s)
<b>BMS Discharge Current Cut-Off</b>	<b>450A±15A(9ms)</b>
Recommended Low Voltage Disconnect	11V
BMS Discharge Voltage Cut-Off	8V(2.0±0.08vpc)
Reconnect Voltage	9.2V(2.0±0.08vpc)
Short Circuit Protection	1000A

### COMPLIANCE

Certifications	UN38.3 (battery) CE (battery) UL1642&IEC62133(cells)
Shipping Classification	UN 3480, CLASS 9



### DIMENSIONS



### TEMPERATURE

Charge Temperature	0 °C to 55 °C
Discharge Temperature	-20 °C to 60 °C
Storage Temperature	-20 °C to 35 °C
BMS High Temperature Cut-Off	75 °C
Reconnect Temperature	65 °C

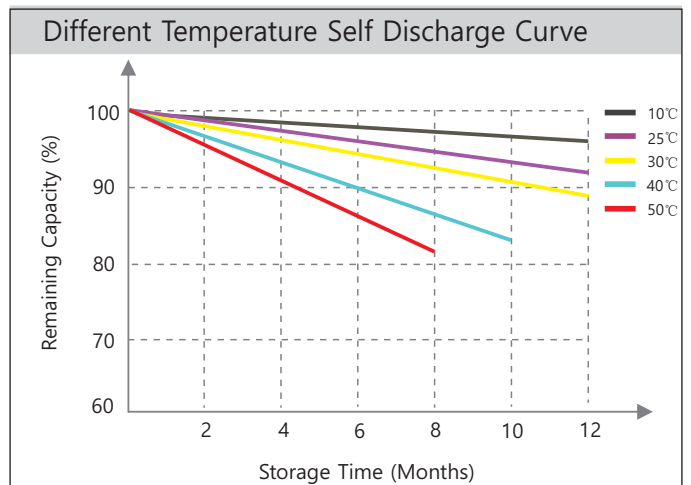
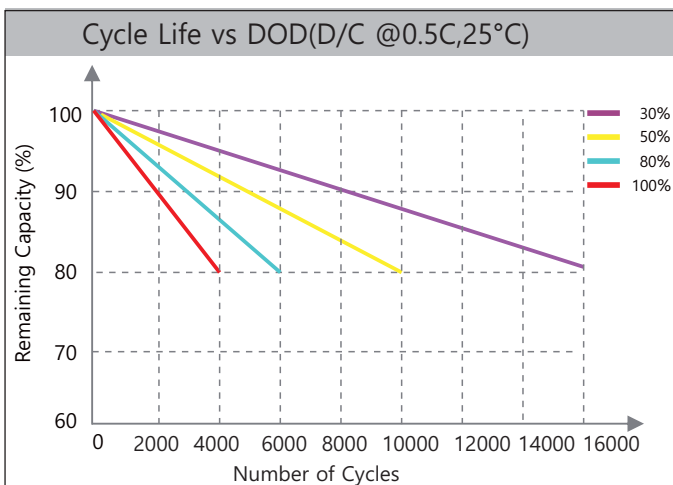
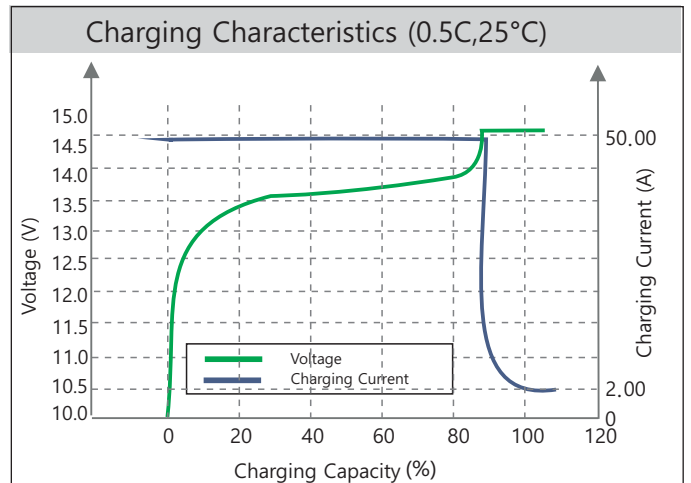
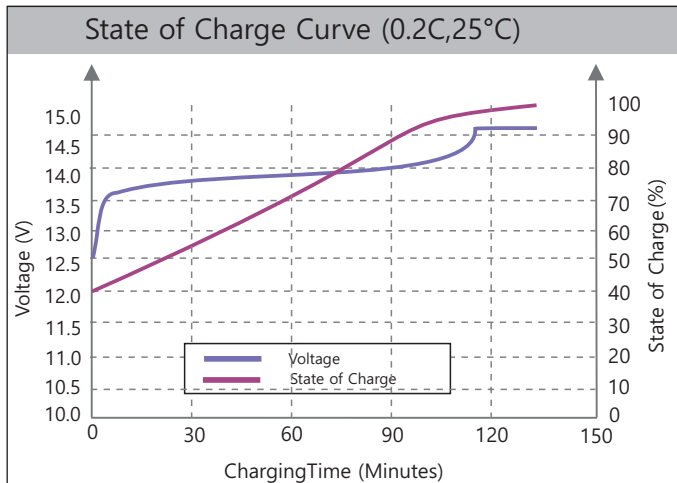
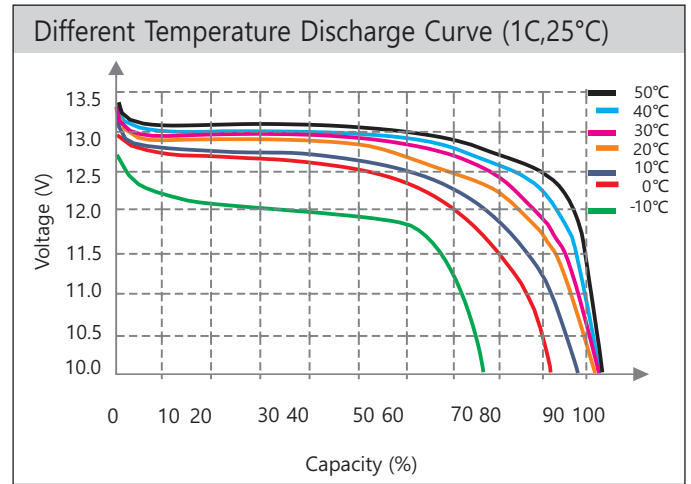
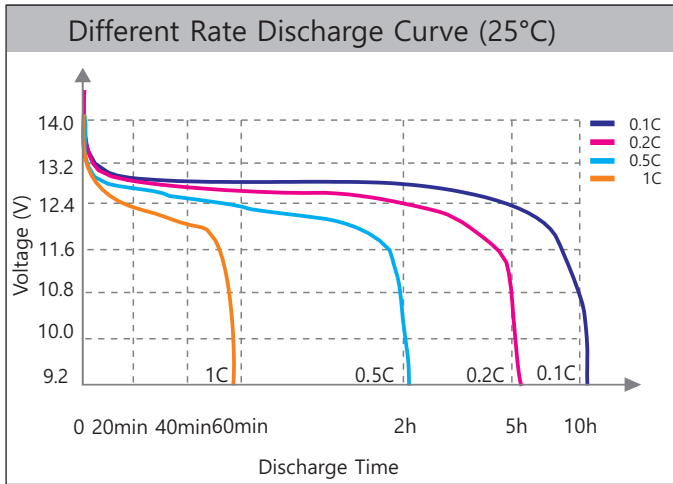
### HUMIDITY

Charge Humidity	45 to 85%
Discharge Humidity	45 to 85%
Storage Humidity	45 to 85%

### MAIN APPLICATIONS

Energy Storage / UPS / Marines / RV / EPS / Portable Power Supply / Solar or Wind Power Generation Stations, etc.

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Notes: This is for a 12V battery. You can multiply 12V times 2 to get 24V, 3 to get 36V and 4 to get 48V battery.