

# LITHIUM IRON PHOSPHATE BATTERY

**FEATURES**

- Lithium Iron Phosphate (LiFePO<sub>4</sub>)
- The Safest Lithium Technology
- Integrated Battery Management System(BMS)
- Maximum support 4 in series or 4 in parallel

**PERFORMANCE**

- Long Cycle Life>4000cycles@80%DOD
- High Density,High Discharge Current,High Temperature Range
- Low Weight,Free Maintenance
- Fast Charging
- Environment Friendly



## LFP12-100 - 120AH

### BATTERY DATA SHEET

ELECTRICAL PARAMETERS	
Nominal Voltage	12.8V
Rated Capacity	120Ah
Energy	1536Wh
Resistance	≤20mΩ
Efficiency	≥98%
Cycle Life (1C,80%DOD,25°C)	> 4000cycles
Self Discharge	<5% per Month
Max. Cell in Series/ Parallel	4S/5P

MECHANICAL PARAMETERS	
Dimension(L×W×H)	307x169x208mm
	12.09x 6.61x 8.19"
Weight	12kg
Terminal Type	M8
Battery Housing	ABS
Housing Protection	IP65
Cell Type-Chemistry	LiFePO <sub>4</sub> Cell
Communication	Bluetooth

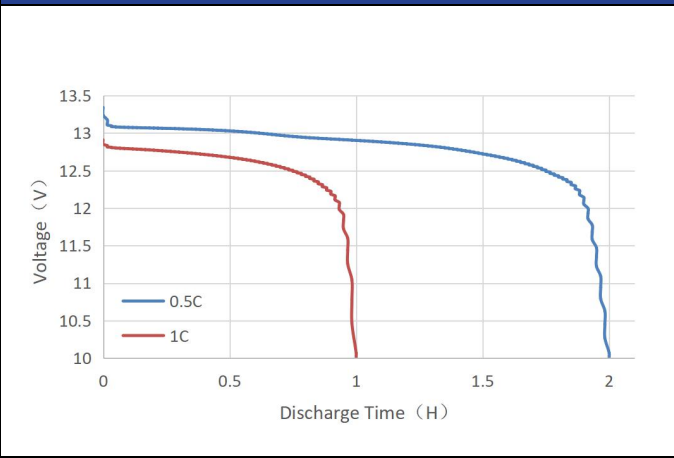
DISCHARGE PARAMETERS	
Continuous Discharge Current	100A
Pulse Discharge Current	160A (<10S)
Recommended Volt. Disconnect	10V
BMS Discharge Cut-off Voltage	10V
Reconnect Voltage	12V
Short Circuit Protection	300-800us

CHARGE PARAMETERS	
Charge Method	CC-CV
Charge Voltage	14.2~14.6V
Recommended Float Voltage	13.5~13.8V
Recommended Charge Current	50A
Maximum Charge Current	100A
BMS Charge Cut-off Voltage	14.6V

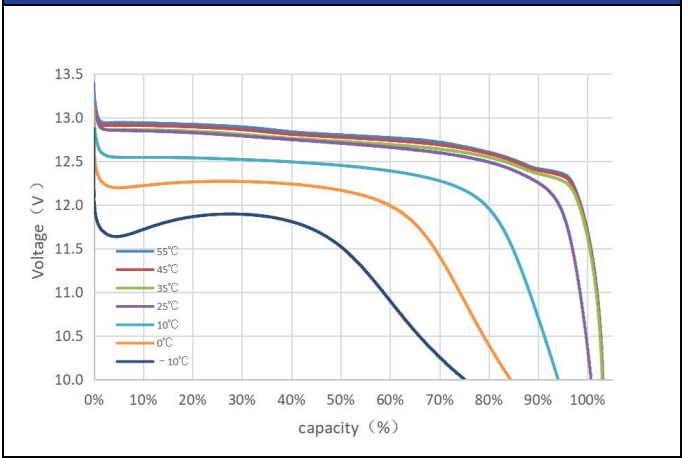
TEMPERATURE PARAMETERS	
Discharge Temperature	-20°C to 60°C
Charge Temperature	0°C to 55°C
Storage Temperature	-20°C to 60°C
BMS High Temperature Cut-off	75°C



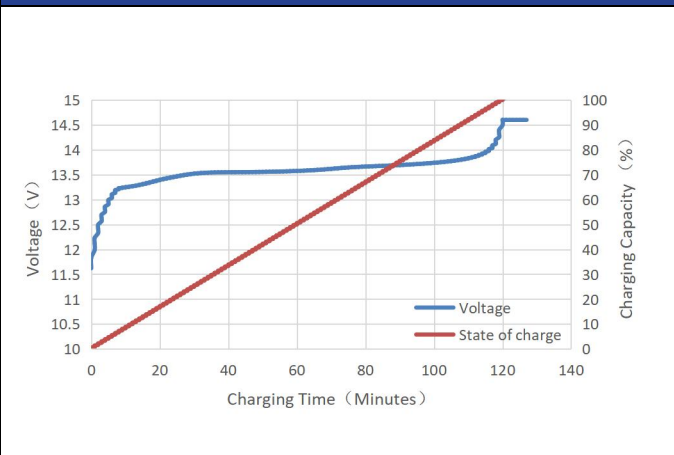
**DIFFERENT RATE DISCHARGE CURVE (25°C)**



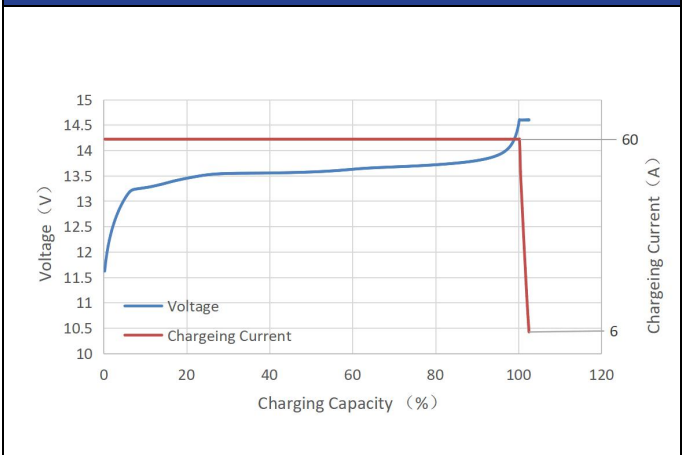
**DIFFERENT TEMPERATURE DISCHARGE CURVE (0.5C)**



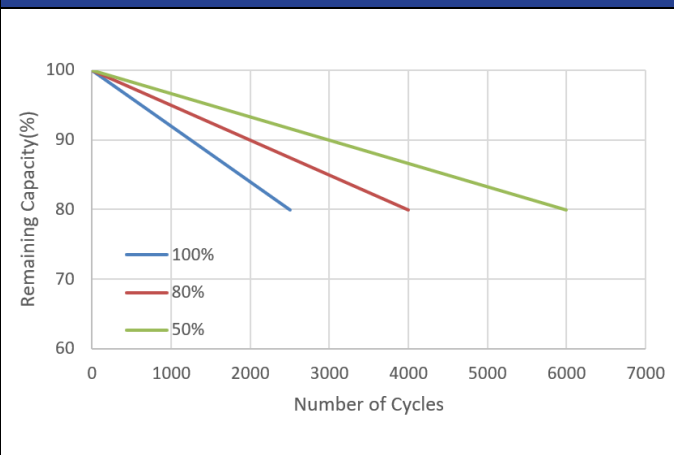
**STATE OF CHARGE CURVE (0.5C, 25°C)**



**STATE OF CHARGE CURVE (0.5C, 25°C)**



**DIFFERENT DOD DISCHARGE CYCLE LIFE CURVE (1C)**



**DIFFERENT TEMPERATURE SELF DISCHARGE CURVE**

