

# 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



## LFP12-150 - 150AH

### BATTERY DATA SHEET

ELECTRICAL PARAMETERS	
Nominal Voltage	12.8V
Rated Capacity	150Ah
Energy	1920Wh
Resistance	≤35mΩ
Efficiency	≥98%
Cycle Life (1C,80%DOD,25°C)	> 4000cycles
Self Discharge	<5% per Month
Max. Cell in Series/ Parallel	4S/1P

MECHANICAL PARAMETERS	
Dimension(L×W×H)	329x172x214mm
	12.95x 6.77x 8.43"
Weight	14.5kg
Terminal Type	M8
Battery Housing	ABS
Housing Protection	IP65
Cell Type-Chemistry	LiFePO <sub>4</sub> Cell
Communication	Bluetooth

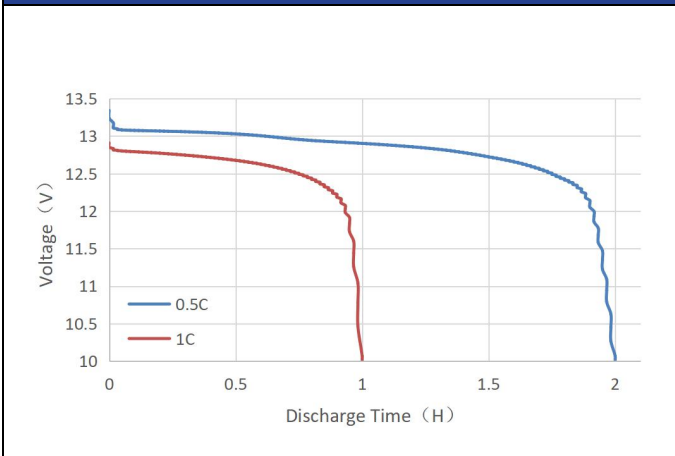
DISCHARGE PARAMETERS	
Continuous Discharge Current	150A
Pulse Discharge Current	300A (<10S)
Recommended Volt. Disconnect	10V
BMS Discharge Cut-off Voltage	10V
Reconnect Voltage	12V
Short Circuit Protection	300-800us

CHARGE PARAMETERS	
Charge Method	CC-CV
Charge Voltage	14.2~14.6V
Recommended Float Voltage	13.5~13.8V
Recommended Charge Current	75A
Maximum Charge Current	150A
BMS Charge Cut-off Voltage	14.6V

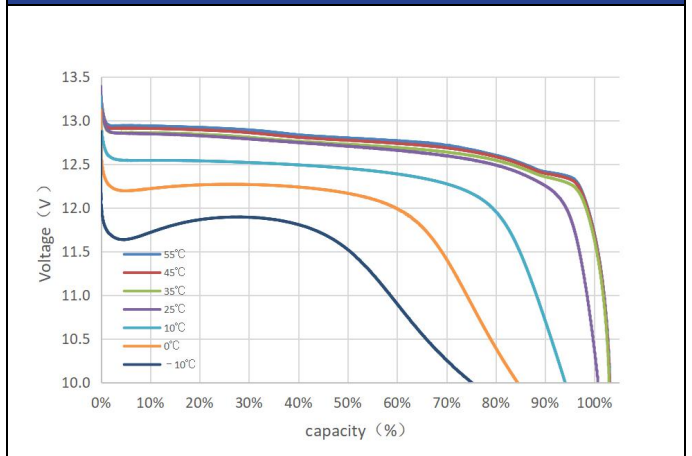
TEMPERATURE PARAMETERS	
Discharge Temperature	-20°C to 60°C
Charge Temperature	0°C to 55°C
Storage Temperature	-20°C to 60°C
BMS High Temperature Cut-off	75°C



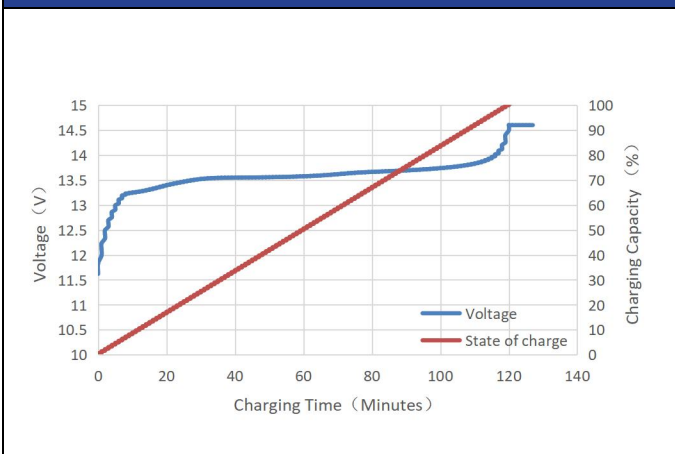
**DIFFERENT RATE DISCHARGE CURVE (25°C)**



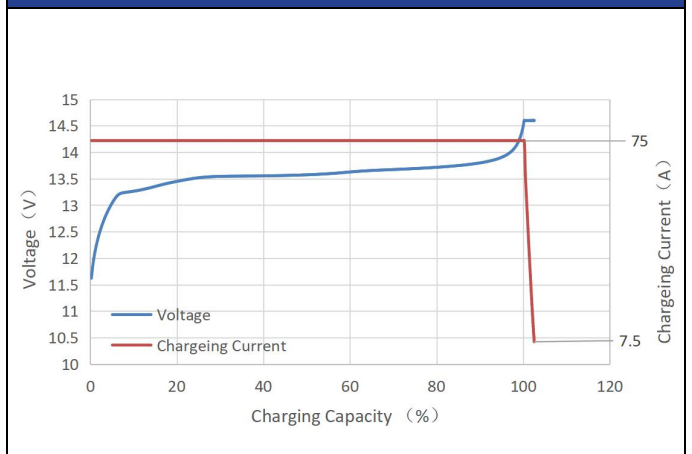
**DIFFERENT TEMPERATURE DISCHARGE CURVE (0.5C)**



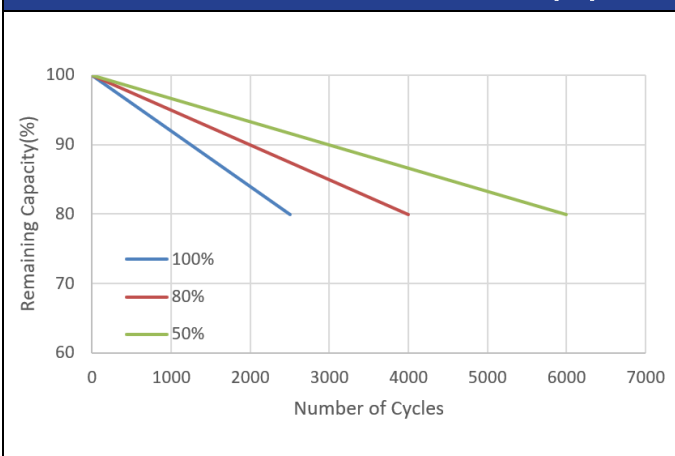
**STATE OF CHARGE CURVE (0.5C, 25°C)**



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



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



**DIFFERENT TEMPERATURE SELF DISCHARGE CURVE**

