

LITHIUM IRON PHOSPHATE BATTERY

FEATURES

Lithium Iron Phosphate (LiFePO4)
 The Safest Lithium Technology
 Integrated Battery Management System(BMS)
 Maximum support 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



LFP12-100SS - 110AH

BATTERY DATA SHEET

ELECTRICAL PARAMETERS	
Nominal Voltage	12.8V
Rated Capacity	110Ah
Energy	1280Wh
Resistance	≤20mΩ
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) Including mounting feet	600x275x62mm 23.62 x 10.83x 2.44"
Weight	13.5kg
Terminal Type	120A Anderson
Battery Housing	Cold rolled steel sheet
Housing Protection	IP30
Cell Type-Chemistry	LiFePO4 Cell
Communication	/

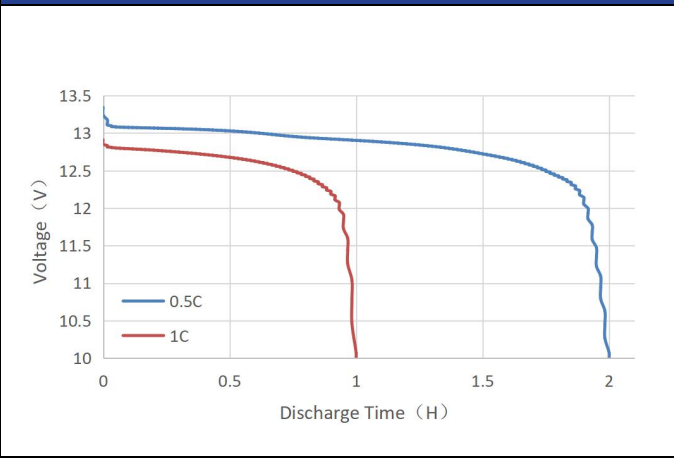
DISCHARGE PARAMETERS	
Continuous Discharge Current	100A
Pulse Discharge Current	160A (<10S)
Recommended Volt. Disconnect	10V
BMS Discharge Cut-off Voltage	8.8V
Reconnect Voltage	10.8V
Short Circuit Protection	300-800us

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	15V

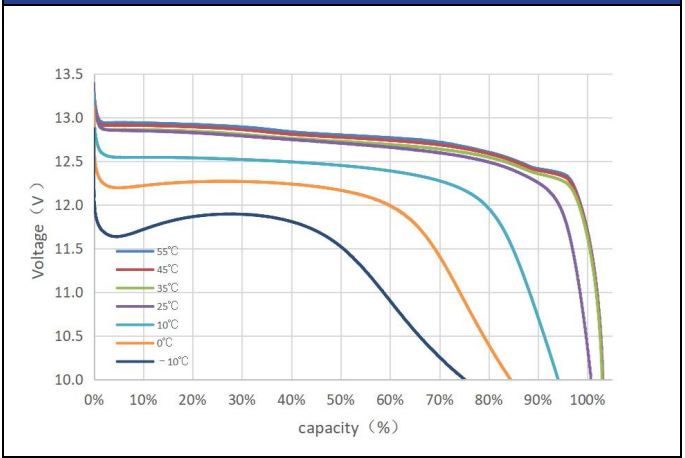
TEMPERATURE PARAMETERS	
Discharge Temperature	-20°C to 60°C
Charge Temperature	0°C to 55°C
Storage Temperature	-20°C to 60°C
BMS High Temperature Cut-off	65°C



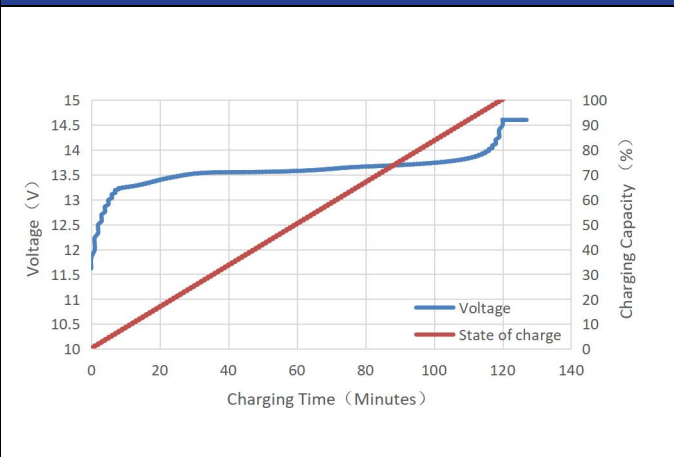
DIFFERENT RATE DISCHARGE CURVE (25°C)



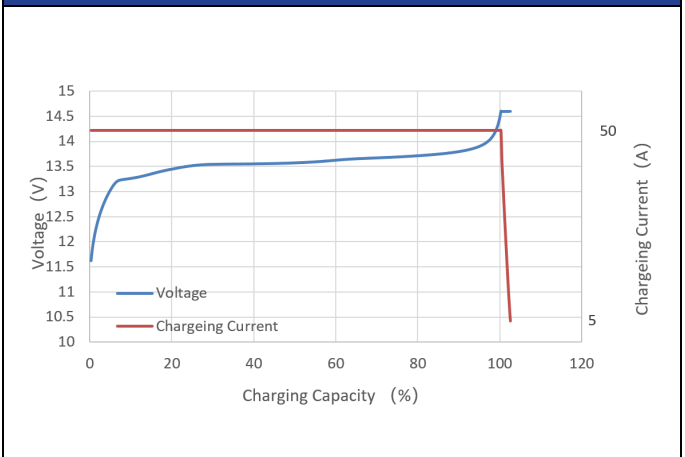
DIFFERENT TEMPERATURE DISCHARGE CURVE (0.5C)



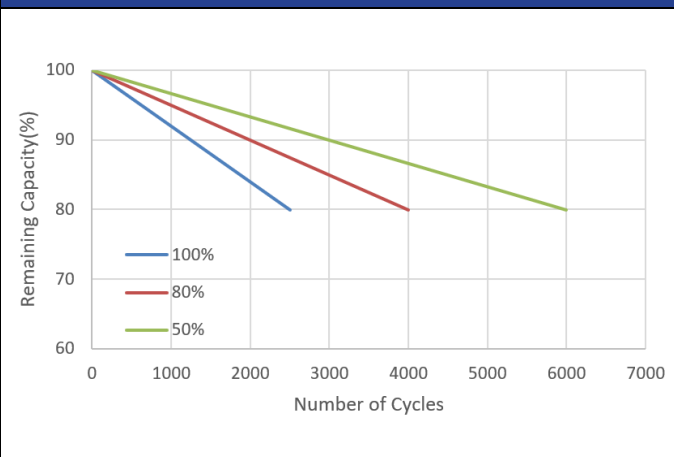
STATE OF CHARGE CURVE (0.5C, 25°C)



STATE OF CHARGE CURVE (0.5C, 25°C)



DIFFERENT DOD DISCHARGE CYCLE LIFE CURVE (1C)



DIFFERENT TEMPERATURE SELF DISCHARGE CURVE

