

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



INSERT BATTERY PART NUMBER AND RATING

BATTERY DATA SHEET

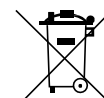
ELECTRICAL PARAMETERS	
Nominal Voltage	12.8V
Rated Capacity	100Ah
Energy	1280Wh
Resistance	≤ 20mΩ
Efficiency	≥ 98%
Cycle Life (1C, 80%DOD, 25°C)	> 4000cycles
Self Discharge	< 5% per Month
Max. Cell in Series/ Parallel	4S/1P

MECHANICAL PARAMETERS	
Dimension(L×W×H) Including mounting feet	644x275x50mm 25.35 x 10.83x 1.97"
Weight	13.5kg
Terminal Type	120A Anderson
Battery Housing	Cold rolled steel sheet
Housing Protection	IP30
Cell Type-Chemistry	LiFePO ₄ Cell
Communication	/

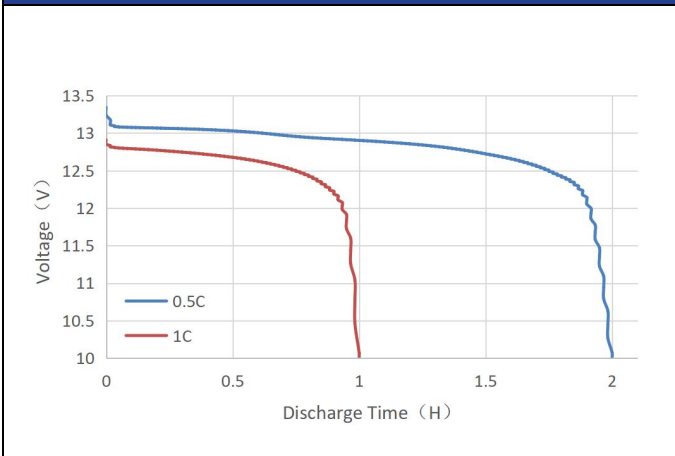
DISCHARGE PARAMETERS	
Continuous Discharge Current	100A
Pulse Discharge Current	160A (< 10S)
Recommended Volt. Disconnect	10V
BMS Discharge Cut-off Voltage	8.8V
Reconnect Voltage	10.8V
Short Circuit Protection	300-800us

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

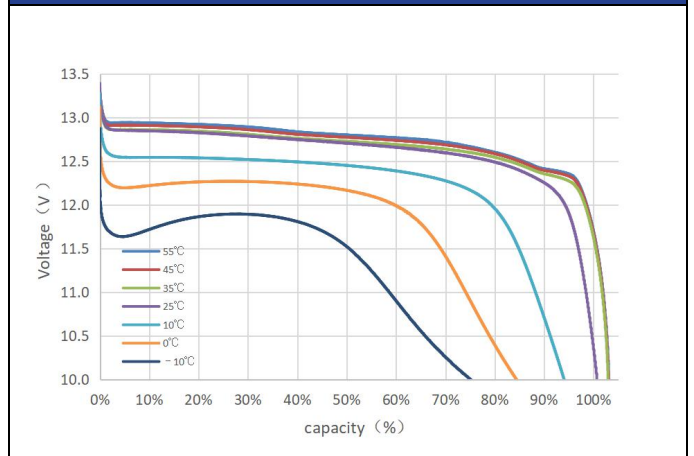
TEMPERATURE PARAMETERS	
Discharge Temperature	-20°C to 60°C
Charge Temperature	0°C to 55°C
Storage Temperature	-20°C to 60°C
BMS High Temperature Cut-off	65°C



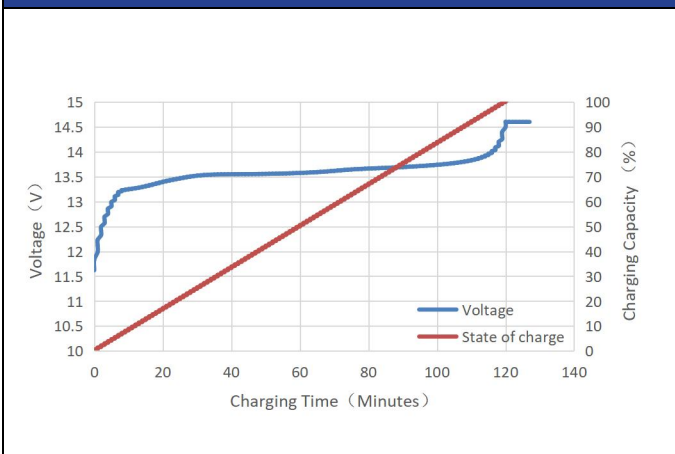
DIFFERENT RATE DISCHARGE CURVE (25°C)



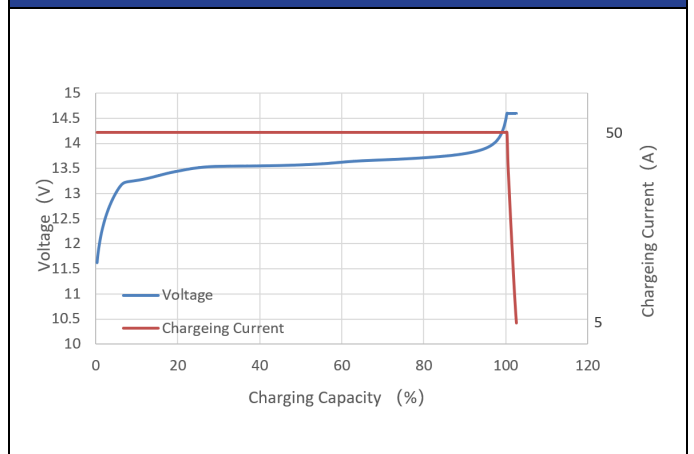
DIFFERENT TEMPERATURE DISCHARGE CURVE (0.5C)



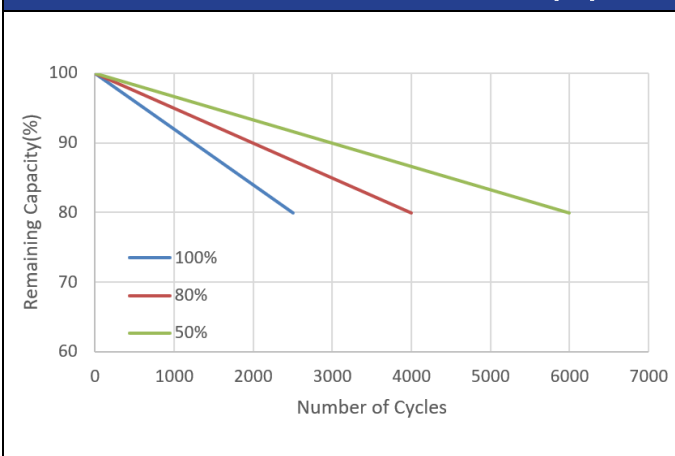
STATE OF CHARGE CURVE (0.5C, 25°C)



STATE OF CHARGE CURVE (0.5C, 25°C)



DIFFERENT DOD DISCHARGE CYCLE LIFE CURVE (1C)



DIFFERENT TEMPERATURE SELF DISCHARGE CURVE

