

### LITHIUM IRON PHOSPHATE BATTERY

#### ELECTRICAL SPECIFICATIONS

Nominal Voltage	12.8 V
Nominal Capacity	165 Ah
Capacity @ 0.2C	>290 min
Energy	2112 Wh
Resistance	< 30 mΩ
Efficiency	99%
Self Discharge	<3% per Month
Maximum Modules in Series	4

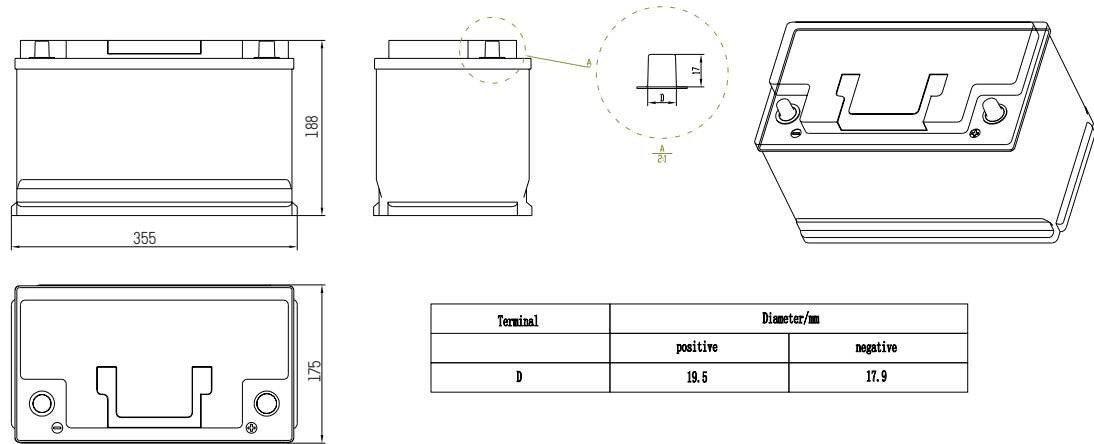
#### DISCHARGE SPECIFICATIONS

Maximum Continuous Discharge Current	150 A
Peak Discharge Current	300 A
Recommended Low Voltage Disconnect	11 V
PCM Discharge Voltage Cut-Off	10 V
Reconnect Voltage	12 V
Short Circuit Protection	Yes

#### TEMPERATURE SPECIFICATIONS

Discharge Temperature	-4 to 140 °F (-20 to 60 °C)
Charge Temperature	32 to 131 °F (0 to 55 °C)
Storage Temperature	-4 to 140 °F (-20 to 60 °C)
PCM High Temperature Cut-Off	176 °F (80 °C)

#### DIMENSIONAL SPECIFICATIONS



#### MECHANICAL SPECIFICATIONS

Dimensions (L x W x H)	355 x 175 x 188 mm
Weight	17.5kg
Terminal Type	AP
Terminal Torque	80 - 100 in-lbs (9 - 11 N-m)
Case Material	ABS
Enclosure Protection	IP65
Chemistry	LiFePO <sub>4</sub>

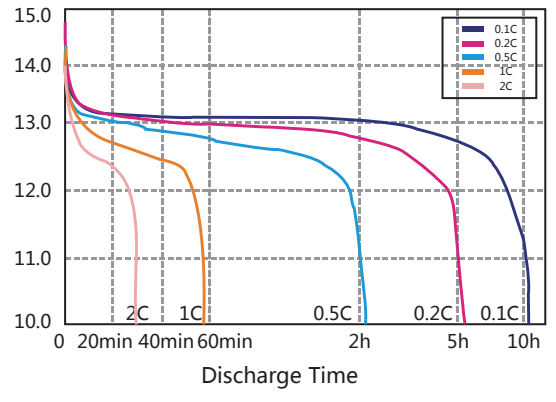
#### CHARGE SPECIFICATIONS

Recommended Charge Current	< 50 A
Maximum Charge Current	100 A
Recommended Charge Voltage	14.2 V - 14.6 V
PCM Charge Voltage Cut-Off	15.6 V
Reconnect Voltage	15.2 V
Balancing Voltage	14.4 V

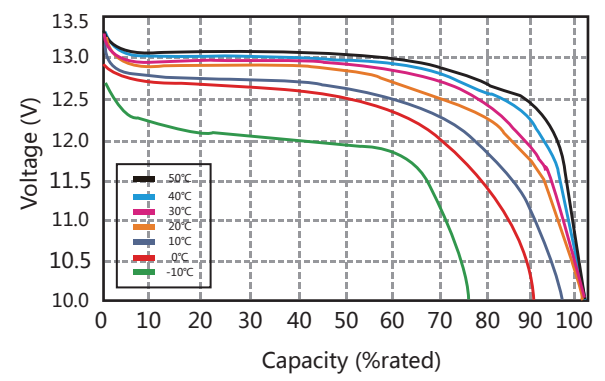
Terminal	Diameter/mm	
	positive	negative
D	19.5	17.9

### PERFORMANCE CHARACTERISTICS

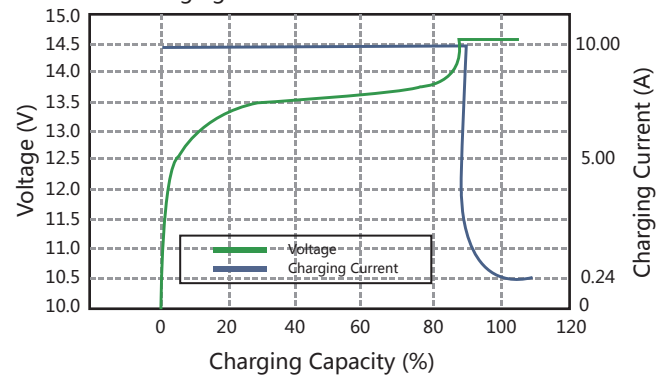
Different Rate Discharge Curve @25°C



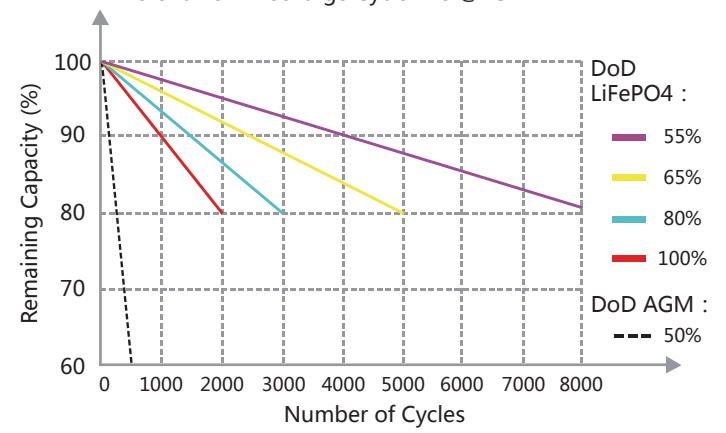
Different Temperature Discharge Curve @0.5°C



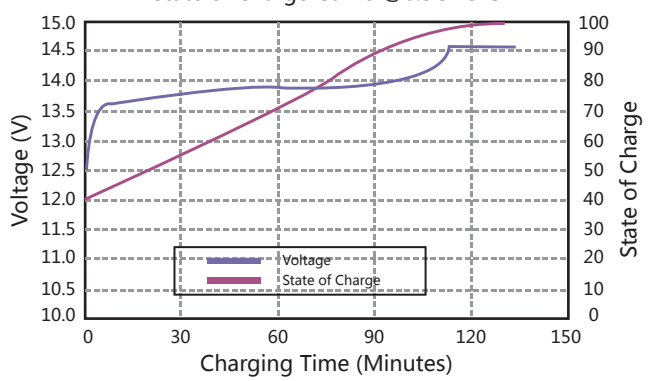
Charging Characteristics @0.5C 25°C



Different DoD Discharge Cycle Life @1C



State of Charge Curve @0.5C 25°C



Different Temperature Self Discharge Curve

