

ELECTRICAL SPECIFICATIONS

Nominal Voltage	12.8V
Nominal Capacity	100 Ah
Capacity @ 25A	120 min
Resistance	≤8 mΩ @ 50% SOC
Efficiency	99%
Self Discharge	<3% per Month
Cycle Life	4000 times DOD80% (0.5C)

CHARGE SPECIFICATIONS

Recommended Charge Current	20 A
Maximum Charge Current	150 A
Recommended Charge Voltage	14.6V
BMS Charge Voltage Cut-Off	14.6 V (3.65 ±0.025 V) (2 S)
Reconnect Voltage	14.0 V (3.5 ±0.05 V)
Balancing Voltage	13.6 V (3.4 ±0.025V)

DISCHARGE SPECIFICATIONS

Maximum Continuous Discharge Current	150 A
Peak Discharge Current	900 A (3-5 S)
CCA	900 A (At -20°C)
BMS Discharge Current Cut-Off	950 A (3-5 S)
Recommended Low Voltage Disconnect	11 V
BMS Discharge Voltage Cut-Off	10 V (2.5 ±0.1 V) (2S)
Reconnect Voltage	10.8 V (2.7 ±0.1 V)
Short Circuit Protection	200-600 μS

COMPLIANCE SPECIFICATIONS

Certifications	N/A
Shipping Classification	UN 3480, CLASS 9

TEMPERATURE SPECIFICATIONS

Discharge Temperature	-4 to 140 °F (-20 to 60 °C)
Charge Temperature	32 to 140 °F (0 to 60 °C)
Storage Temperature	14 to 113 °F (-10 to 45°C)
BMS High Temperature Cut-Off	167 °F (75 °C)
Reconnect Temperature	122°F (50 °C)

MECHANICAL SPECIFICATIONS

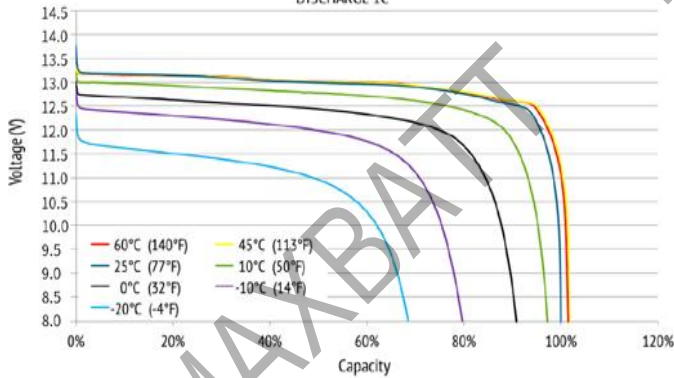
Dimensions (L x W x H)	13.97 x 6.88 x 7.48 inch 355 x 175 x 190 mm
Weight	24.2 lbs (11 Kg)
Terminal Type	POS (Φ 19mm/0.748inch) NEG (Φ 17mm/0.669inch)
Case Material	ABS
Enclosure Protection	IP67
Cell Type	LiFePO ₄

DIMENSIONAL SPECIFICATIONS

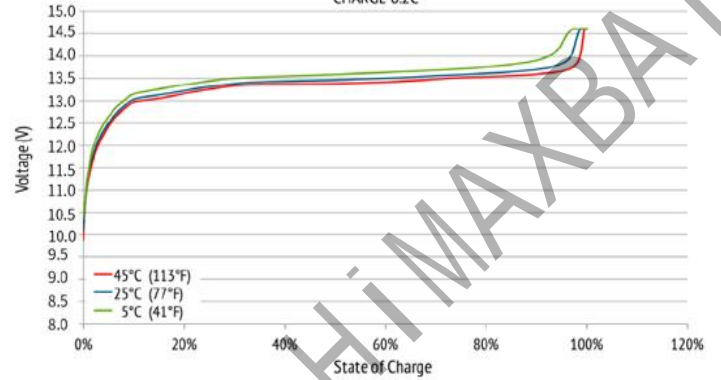


PERFORMANCE CHARACTERISTICS

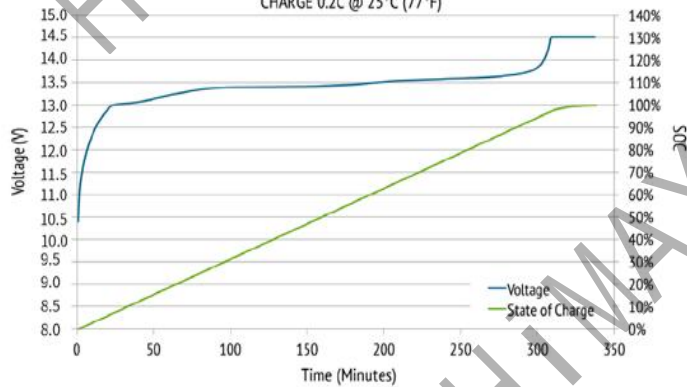
DISCHARGE VOLTAGE CHARACTERISTICS at VARIOUS TEMPERATURES
DISCHARGE 1C



CHARGE VOLTAGE CHARACTERISTICS at VARIOUS TEMPERATURES
CHARGE 0.2C



CHARGE VOLTAGE and STATE OF CHARGE (SOC)
CHARGE 0.2C @ 25°C (77°F)



CYCLE LIFE vs. DEPTH OF DISCHARGE (DOD)
DISCHARGE 0.5C/CHARGE 0.5C @ 25°C (77°F)

