

100AH

ELECTRICAL SPECIFICATIONS

Nominal Voltage	25.6 V
Nominal Capacity	100 Ah
Capacity @ 25A	240 min
Energy	2560 Wh
Resistance	≤10 mΩ @ 50% SOC
Efficiency	99%
Self Discharge	<3% per Month
Maximum Modules in Series	4

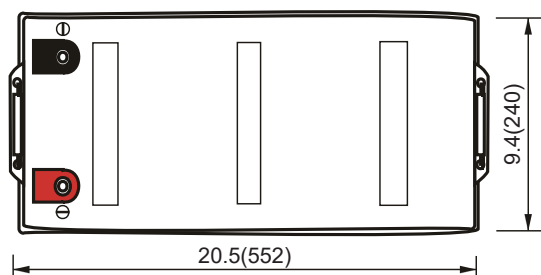
DISCHARGE SPECIFICATIONS

Maximum Continuous Discharge Current	50 A
Peak Discharge Current	100A (5 s)
BMS Discharge Current Cut-Off	160 A (0.01 s ~ 0.3 s)
Recommended Low Voltage Disconnect	20 V
BMS Discharge Voltage Cut-Off	17.6 V (2.2 ± 0.1 vpc)
Reconnect Voltage	21.6 V (2.7 ± 0.1 vpc)
Short Circuit Protection	200-600 μs

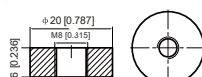
TEMPERATURE SPECIFICATIONS

Discharge Temperature	-4 to 140 °F (-20 to 60 °C)
Charge Temperature	32 to 113 °F (0 to 45 °C)
Storage Temperature	32 to 104°F (0 to 40 °C)
BMS High Temperature Cut-Off	149°F (65 °C)
Reconnect Temperature	118.4°F (48 °C)

DIMENSIONAL SPECIFICATIONS



M8 - 1.0x 8mm
Threaded Hole
Terminal Torque
10-12 (N.m)



MECHANICAL SPECIFICATIONS

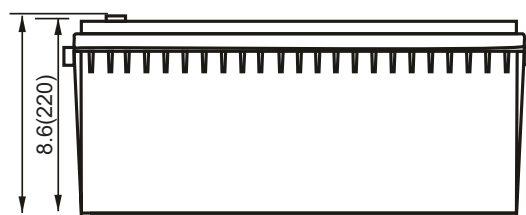
Dimensions (L x W x H)	20.5 x 9.4 x 8.6" 522 x 240 x 220 mm
Weight	42.99 lbs (19.5 kg)
Terminal Type	M8
Terminal Torque	88.5 - 106.2 in-lbs (10 - 12 N-m)
Case Material	ABS
Enclosure Protection	IP65
Cell Type - Chemistry	Prismatic - LiFePO ₄

CHARGE SPECIFICATIONS

Recommended Charge Current	20 A
Maximum Charge Current	50 A
Recommended Charge Voltage	29.2 ± 0.2 V
BMS Charge Voltage Cut-Off	30 V (3.75 ± 0.05 vpc) (0.5 ~ 2 s)
Reconnect Voltage	28.4 V (3.55 ± 0.1 vpc)
Balancing Voltage	28.8 V (3.6 ± 0.1 vpc)

COMPLIANCE SPECIFICATIONS

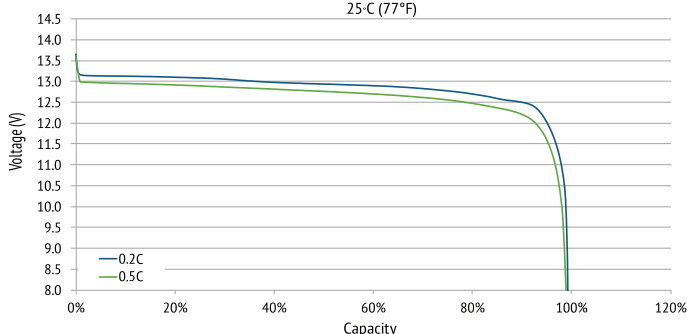
Certifications	CE (battery) UN38.3 (battery) UL1642 & IEC62133 (cells)
Shipping Classification	UN 3480, CLASS 9



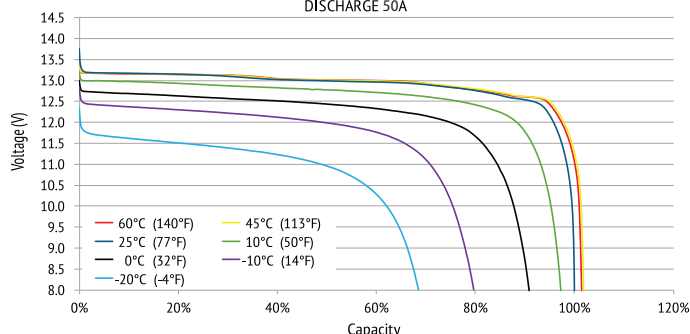
100AH

PERFORMANCE CHARACTERISTICS

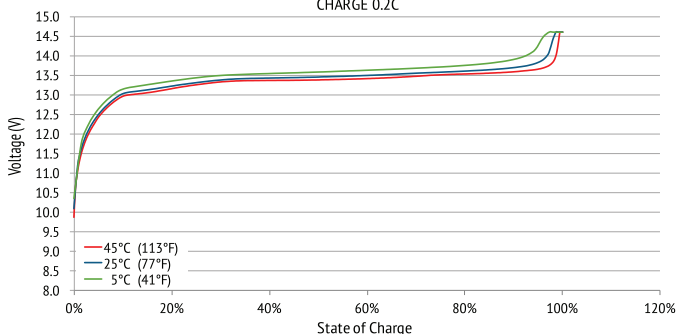
DISCHARGE VOLTAGE CHARACTERISTICS at VARIOUS RATES
25°C (77°F)



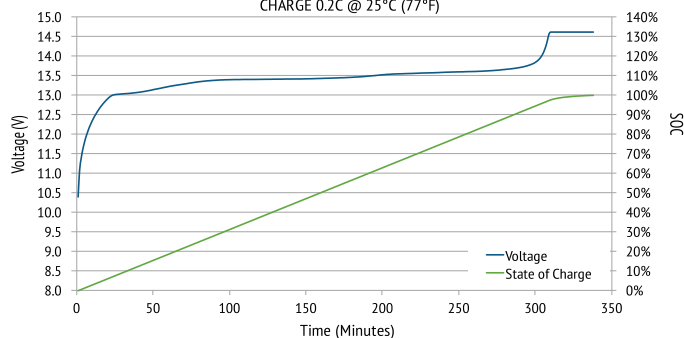
DISCHARGE VOLTAGE CHARACTERISTICS at VARIOUS TEMPERATURES
DISCHARGE 50A



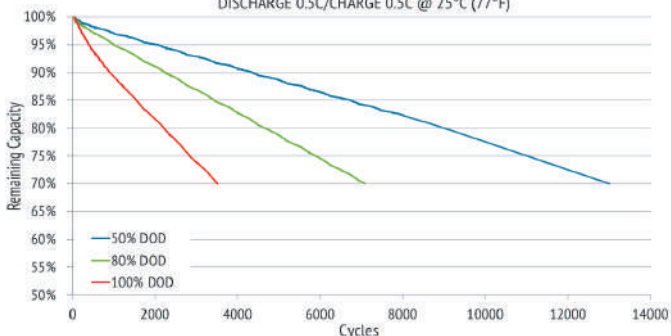
CHARGE VOLTAGE CHARACTERISTICS at VARIOUS TEMPERATURES
CHARGE 0.2C



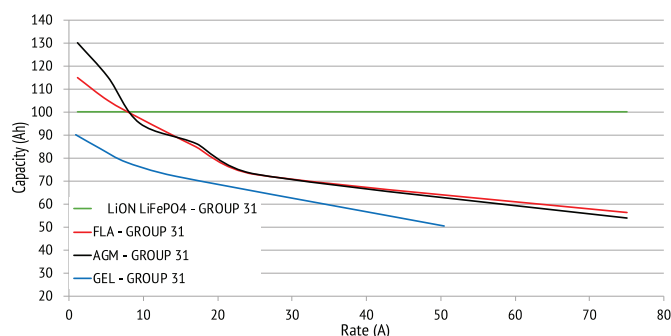
CHARGE VOLTAGE and STATE OF CHARGE (SOC)
CHARGE 0.2C @ 25°C (77°F)



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



CAPACITY of PRO POWER LiFePO4 vs. LEAD ACID
at VARIOUS RATES OF DISCHARGE



(CELLS)

UN38.3

CE

IEC



Ver. 10/2024