



LITHIUM IRON PHOSPHATE BATTERY

ELECTRICAL SPECIFICATIONS

Nominal Voltage	12.8 V
Nominal Capacity	10 Ah
Capacity @ 25A	24 min
Energy	128 Wh
Resistance	≤30 mΩ @ 50% SOC
Efficiency	99%
Self Discharge	<3% per Month
Maximum Modules in Series	6

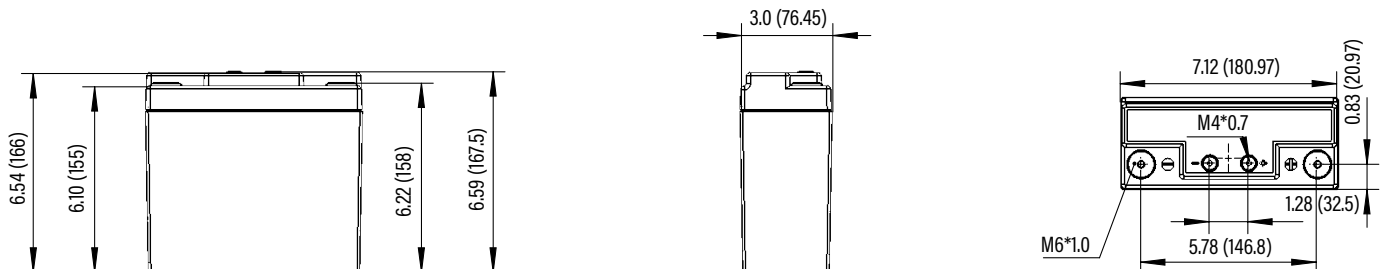
DISCHARGE SPECIFICATIONS

Maximum Continuous Discharge Current	50 A
Peak Discharge Current	70 A (<3s)
BMS Discharge Current Cut-Off	NONE
Recommended Low Voltage Disconnect	11 V
BMS Discharge Voltage Cut-Off	NONE
Short Circuit Protection	NONE

TEMPERATURE SPECIFICATIONS

Discharge Temperature	-4 to 140°F (-20 to 60°C)
Charge Temperature	32 to 113°F (0 to 45°C)
Storage Temperature	23 to 95°F (-5 to 35°C)
BMS High Temperature Cut-Off - Charge	149°F ±41°F (65°C ±5°C)
Reconnect Temperature - Charge	113°F ±41°F (45°C ±5°C)

DIMENSIONAL SPECIFICATIONS



MECHANICAL SPECIFICATIONS

Dimensions (L x W x H)	7.1 x 3.0 x 6.6"
	181 x 76 x 168 mm
Weight	4.4 lbs (2 kg)
Terminal Type	Discharge: M6, Charge: M4
Terminal Torque	M6: 32 - 39 in-lbs (3.6 - 4.4 N-m) M4: 8.3 - 12.4 in-lbs (0.93 - 1.4 N-m)
Case Material	ABS
Enclosure Protection	IP56
Cell Type - Chemistry	Cylindrical - LiFePO ₄

CHARGE SPECIFICATIONS

Recommended Charge Current	5 A
Maximum Charge Current	10 A
Recommended Charge Voltage	14.2V - 14.6 V
BMS Charge Voltage Cut-Off	15.6 V (3.9 ±0.025 vpc) (1.2 ±0.3s)
Reconnect Voltage	15.2 V (3.8 ±0.05 vpc)
Balancing Voltage	14.4 V (3.6 ±0.025 vpc)

COMPLIANCE SPECIFICATIONS

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



RB10-PC



PERFORMANCE CHARACTERISTICS

