



LITHIUM IRON PHOSPHATE BATTERY

ELECTRICAL SPECIFICATIONS

Nominal Voltage	25.6 V
Nominal Capacity	50 Ah
Capacity @ 25A	120 min
Energy	1280 Wh
Resistance	60 mΩ
Efficiency	99%
Self Discharge	<3% per Month
Maximum Modules in Series	1

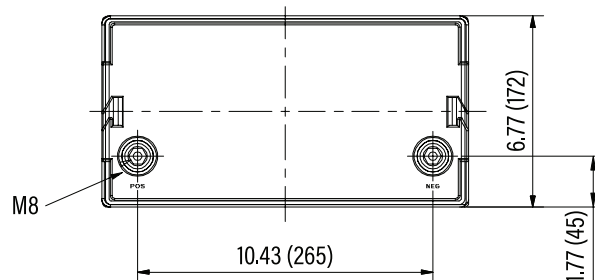
DISCHARGE SPECIFICATIONS

Maximum Continuous Discharge Current	50 A
Peak Discharge Current	100 A (7.5 s ±2.5 s)
PCM Discharge Current Cut-Off	215 A (±15 A)
Recommended Low Voltage Disconnect	22 V
PCM Discharge Voltage Cut-Off	16 V
Reconnect Voltage	20 V
Short Circuit Protection	200-600 μs

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

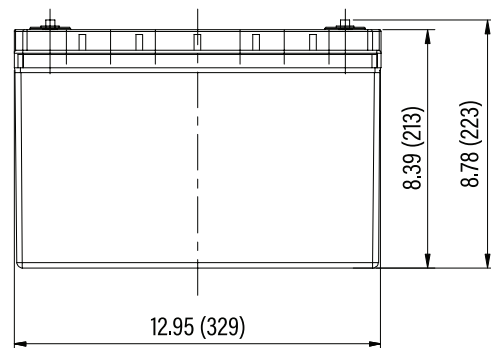
Dimensions (L x W x H)	13.0 x 6.8 x 8.8" 329 x 172 x 223 mm
Weight	29 lbs (13.2 kg)
Terminal Type	M8
Terminal Torque	80 - 100 in-lbs (9 - 11 N-m)
Case Material	ABS
Enclosure Protection	IP56
Cell Type - Chemistry	Cylindrical - LiFePO ₄

CHARGE SPECIFICATIONS

Recommended Charge Current	25 A
Maximum Charge Current	50 A
PCM Charge Current Cut-Off	215 A (±15 A)
Recommended Charge Voltage	28.4 V - 29.2 V
PCM Charge Voltage Cut-Off	31.2 V
Reconnect Voltage	30.4 V
Balancing Voltage	28.8 V

COMPLIANCE SPECIFICATIONS

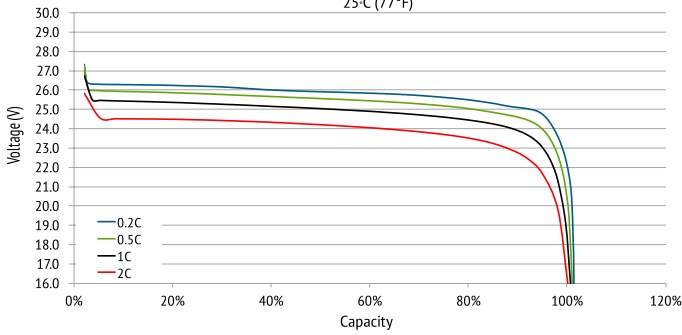
Certifications	CE (battery) UL1642 & IEC62133 (cells)
Shipping Classification	UN 3480, CLASS 9



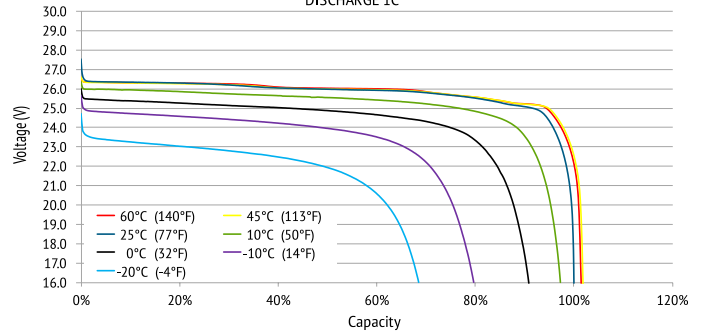


PERFORMANCE CHARACTERISTICS

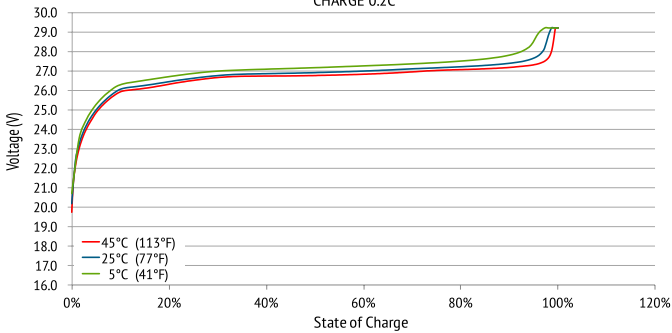
DISCHARGE VOLTAGE CHARACTERISTICS at VARIOUS RATES
25°C (77°F)



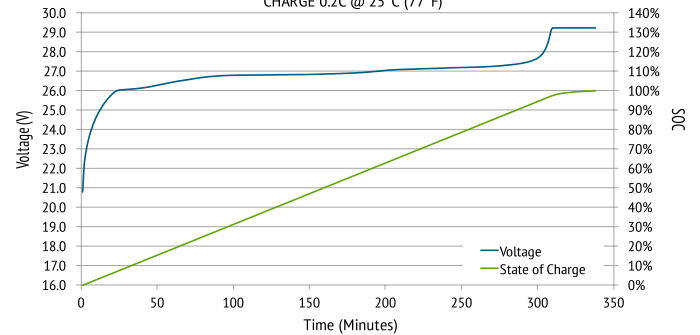
DISCHARGE VOLTAGE CHARACTERISTICS at VARIOUS TEMPERATURES
DISCHARGE 1C



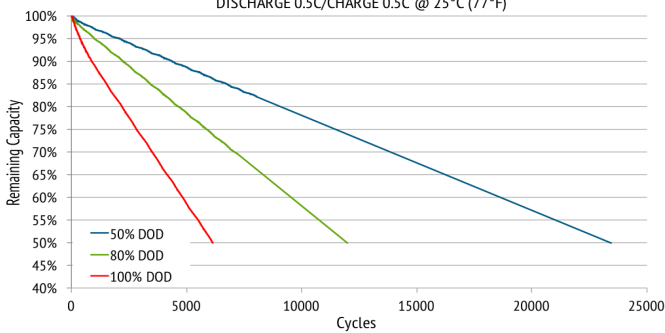
CHARGE VOLTAGE CHARACTERISTICS at VARIOUS TEMPERATURES
CHARGE 0.2C



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)



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

