



RB10PVC

Voltage: 12.8V | Capacity: 10 Ah | Energy: 128 Wh

LITHIUM IRON PHOSPHATE BATTERY **LiFePO4**

ELECTRICAL SPECIFICATIONS

Nominal Voltage	12.8 V
Nominal Capacity	10 Ah
Capacity @ 25A	24 min
Resistance	≤90 mΩ @ 50% SOC
Efficiency	99%
Self Discharge	<3% per Month

DISCHARGE SPECIFICATIONS

Maximum Continuous Discharge Current	10 A
Peak Discharge Current	20 A (7.5 s ±2.5 s)
BMS Discharge Current Cut-Off	30 A ±5 A (10 ±5 ms)
Recommended Low Voltage Disconnect	11 V
BMS Discharge Voltage Cut-Off	8 V (2.0 ±0.08 vpc) (100 ±50 ms)
Reconnect Voltage	10 V (2.5 ±0.1 vpc)
Short Circuit Protection	200-500 μs

TEMPERATURE SPECIFICATIONS

Discharge Temperature	-4 to 140 °F (-20 to 60 °C)
Charge Temperature*	-4 to 113 °F (-20 to 45 °C)
Storage Temperature	23 to 95 °F (-5 to 35°C)

*Refer to charge currents below 32°F (0°C)

MECHANICAL SPECIFICATIONS

Dimensions (L x W x H)	10.3 x 1.4 x 3.0" 262 x 36 x 77 mm
Weight	4 lbs (1.8 kg)
Terminal Type	Wire Leads (250-300 mm)
Case Material	PVC
Enclosure Protection	IP66
Cell Type - Chemistry	Cylindrical - LiFePO4

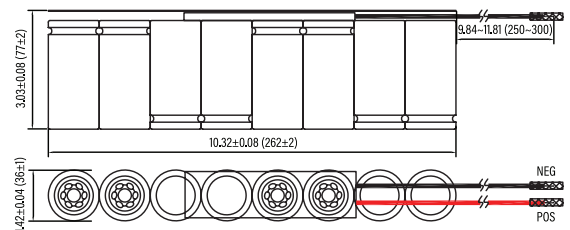
CHARGE SPECIFICATIONS

Recommended Charge Current	0.5 A - 5 A
Maximum Charge Current	10 A
Charge Current 14 to 32 °F (-10 to 0 °C)	≤0.1 C
Charge Current -4 to 14 °F (-20 to -10 °C)	≤0.05 C
Recommended Charge Voltage	14.2 V - 14.6 V
BMS Charge Voltage Cut-Off	15.6 V (3.9 ±0.025 vpc) (1.0 ±0.5 s)
Reconnect Voltage	15.2 V (3.8 ±0.05 vpc)

COMPLIANCE SPECIFICATIONS

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

DIMENSIONAL SPECIFICATIONS





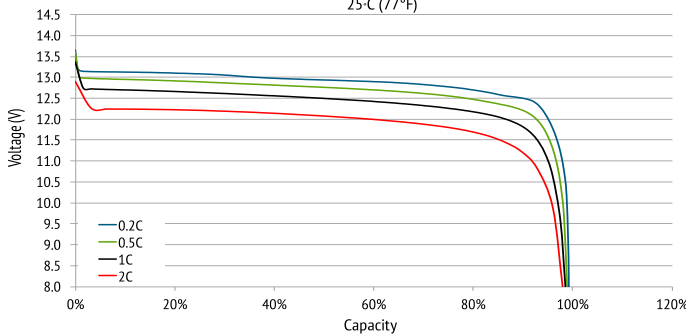
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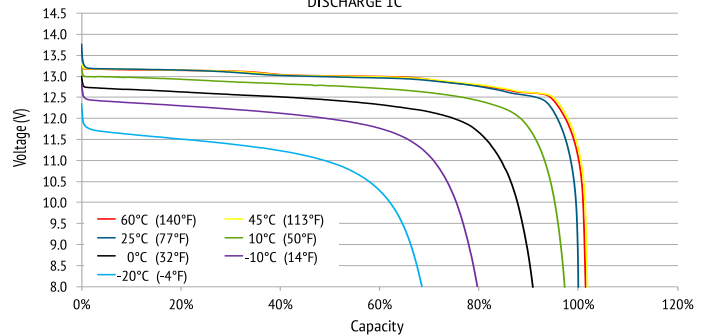
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PERFORMANCE CHARACTERISTICS

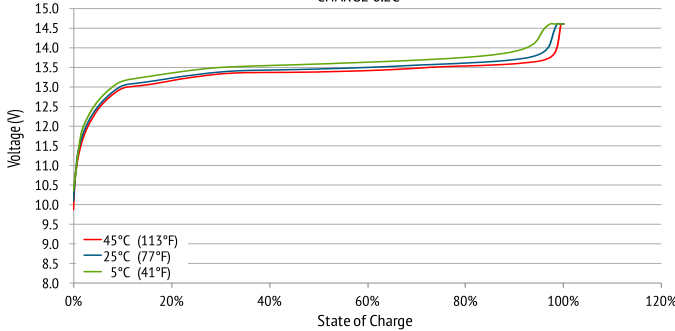
DISCHARGE VOLTAGE CHARACTERISTICS at VARIOUS RATES
25°C (77°F)



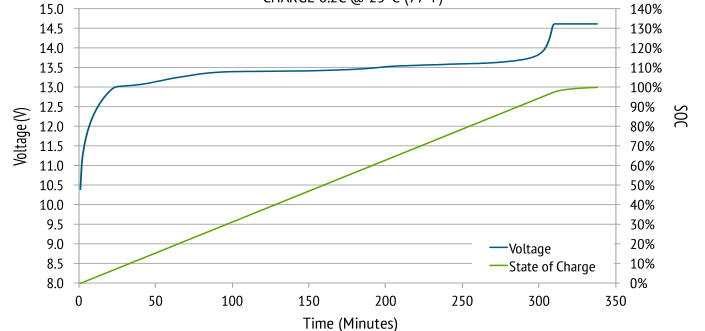
DISCHARGE VOLTAGE CHARACTERISTICS at VARIOUS TEMPERATURES
DISCHARGE 1C



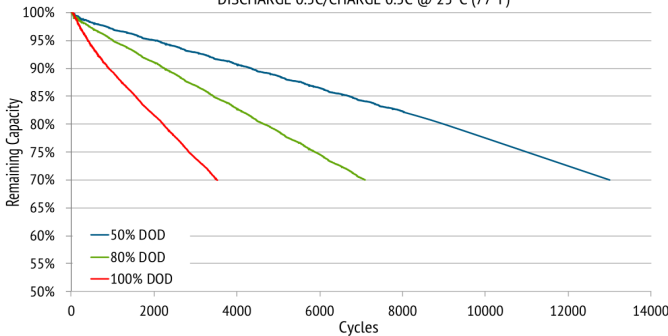
CHARGE VOLTAGE CHARACTERISTICS at VARIOUS TEMPERATURES
CHARGE 0.2C



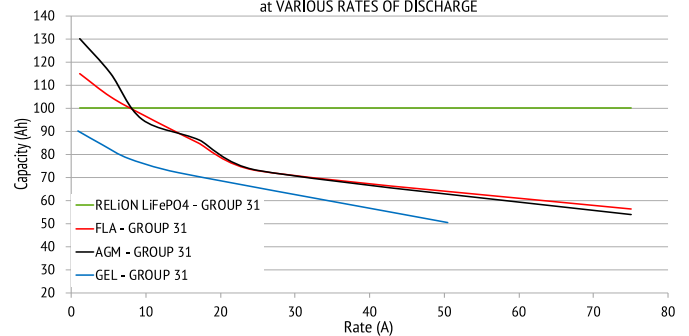
CHARGE VOLTAGE and STATE OF CHARGE (SOC)
CHARGE 0.2C @ 25°C (77°F)



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



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