

AVENTURA 12V 100Ah

Bluetooth - Self-Heating

Technical Specifications



CHARGE SPECIFICATIONS

Recommended Charge Current	5 A - 50 A
Maximum Charge Current	100 A
Recommended Charge Voltage	14.2 V - 14.6 V (Bulk) 13.6V (Float)
High Voltage Disconnect	16.7 V
High Voltage Reconnect	16.4 V

TEMPERATURE SPECIFICATIONS

Charge Temperature	0° to 45 °C
Discharge Temperature	-20 to 60 °C
High Disconnect Temperature	60 °C
High Reconnect Temperature	55 °C
Storage Temperature	-10 à 50 °C

HEATING SPECIFICATIONS

Heating Temperature	-35 to 11 °C
Activation Current	6 A
Heating Current	4 A



ELECTRICAL SPECIFICATIONS

Voltage	12.8 volt
Capacity	100 Ah
Capacity @ 20A	300 min
Energy	1280 Wh
Auto-Discharge	<3% per Month
Maximum Unit in Series	4
Maximum Unit in Parallel	4

DISCHARGE SPECIFICATIONS

Continuous Discharge Current	100 A
Peak Discharge Current	200 A (30s)
Disconnect Charge Current	300 A ±50 A (3s)
Low Voltage Disconnect	10 V
Low Voltage Reconnect	12 V
Short Circuit Protection	yes

NUMBER OF CYCLES ACCORDING TO THE DISCHARGE %

Discharge 30%	8200 cycles
Discharge 80%	4250 cycles
Discharge 100%	3000 cycles

Remaining Integrity (SOH) of 83% after 3560 cycles of discharges at 100% @ 1C

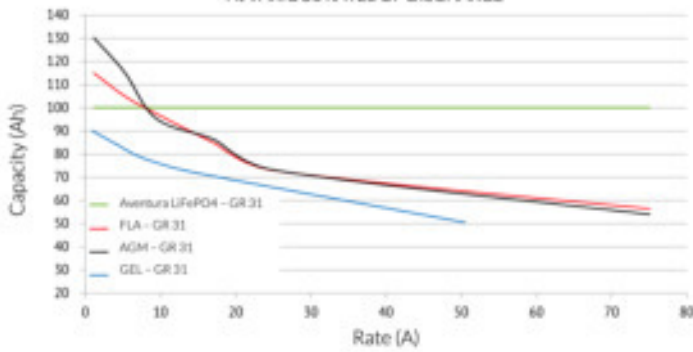
MECHANICAL SPECIFICATIONS

Dimensions (LxWxD) Group 24	260 x 190 x 214 mm 10.24 x 6.62 x 8.43 in
Weight	25 lbs
Terminal Type	M8
Ingress Protection Marking	IP56

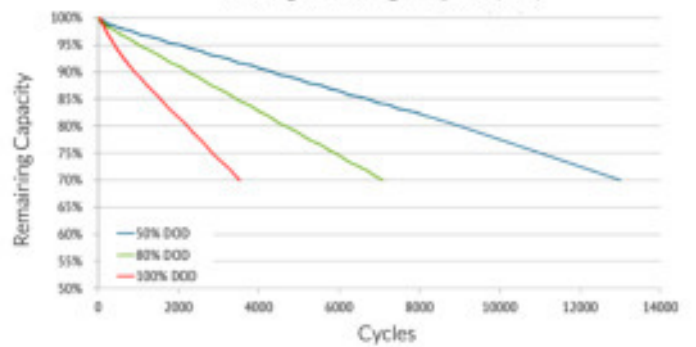
CERTIFICATIONS

Conception	4S1P
Certifications	CE UL1973 RoHS
Shipping Classification	UN 3480 CLASS 9
Cell Type	SquareCell - LiFePO4 - 3.2V 100A Grade A+

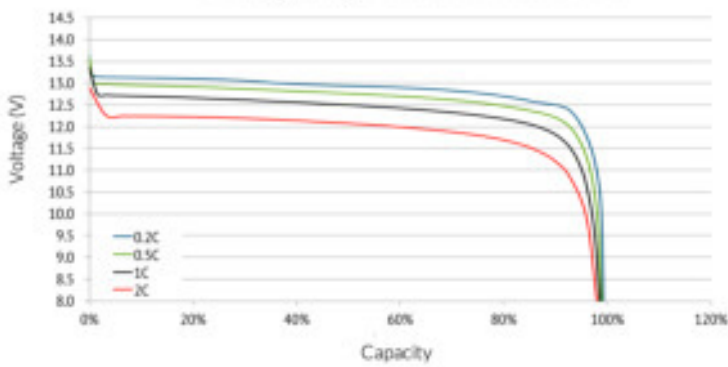
Aventura (LiFePO4) vs Lead Acid
At VARIOUS RATES OF DISCHARGE



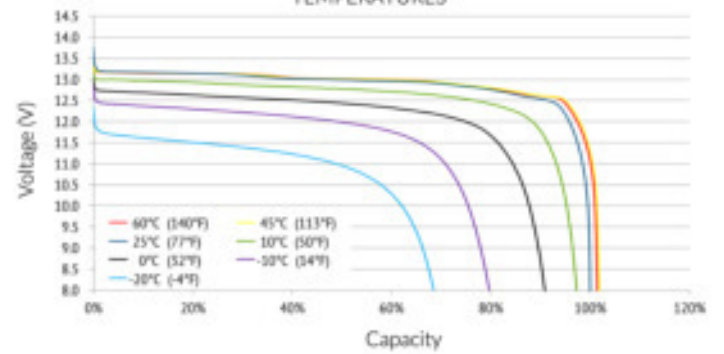
Cycle life vs depth of discharge (DOD)
Discharge 0.5C / Charge 0.5 @ 25°C (77°F)



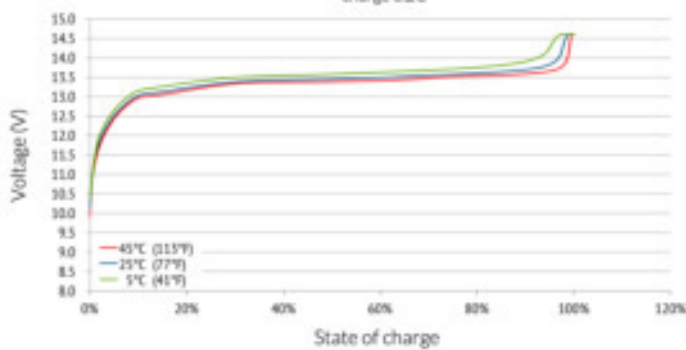
Discharge voltage characteristics at various RATES



Discharge voltage characteristics at various TEMPERATURES



Charge voltage characteristics at various TEMPERATURE
charge 0.2C



Charge voltage and state of charge (SOC)
Charge 0.2C @ 25°C (77°F)

