

**AVENTURA**  
**12V 50Ah**



Technical Specifications

**CHARGE SPECIFICATIONS**

Recommended Charge Current	5 A - 15 A
Maximum Charge Current	60 A
Recommended Charge Voltage	14.2 V - 14.6 V (Bulk) 13.6 V (Float)
High Voltage Disconnect	16.7 V
High Voltage Reconnect	16.4 V

**TEMPERATURE SPECIFICATIONS**

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



**ELECTRICAL SPECIFICATIONS**

Voltage	12.8 volt
Capacity	50 Ah
Capacity @ 20A	150 min
Energy	6400 Wh
Auto-Discharge	<3% per Month
Maximum Unit in Series	4
Maximum Unit in Parallel	4

**DISCHARGE SPECIFICATIONS**

Continuous Discharge Current	60 A
Peak Discharge Current	100 A (180s)
Disconnect Charge Current	200 A (3ms)
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*

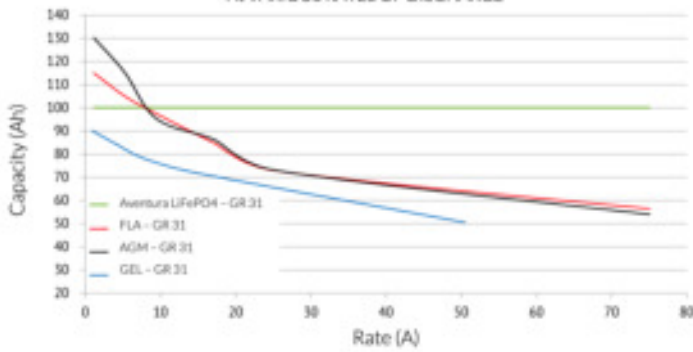
**MECHANICAL SPECIFICATIONS**

Dimensions (LxWxH)	198 X 166 X 170mm 7.8 x 6.54 x 6.7po
Weight	6.75kg / 14 lbs
Terminal Type	M8
Ingress Protection Marking	IP65*

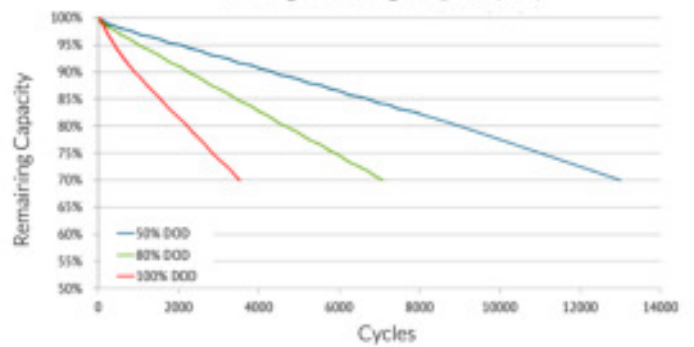
**CERTIFICATIONS**

Certifications	UL   CE   RoHs
Shipping Classification	UN 3480   CLASS 9
Cell Type	LF26700-4000/4Ah - LiFePO4
Assembly	4S13P

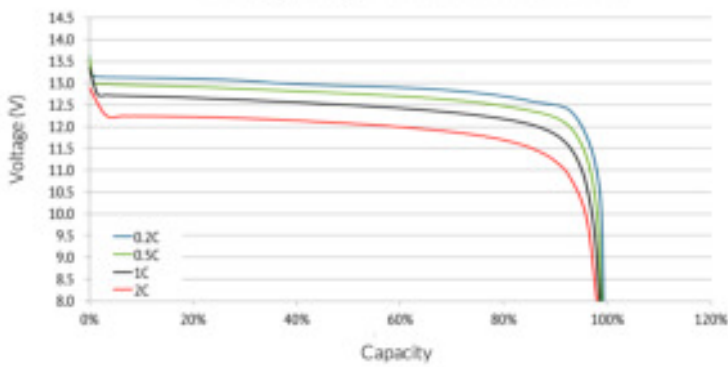
Aventura (LiFePO4) vs Lead Acid  
At VARIOUS RATES OF DISCHARGE



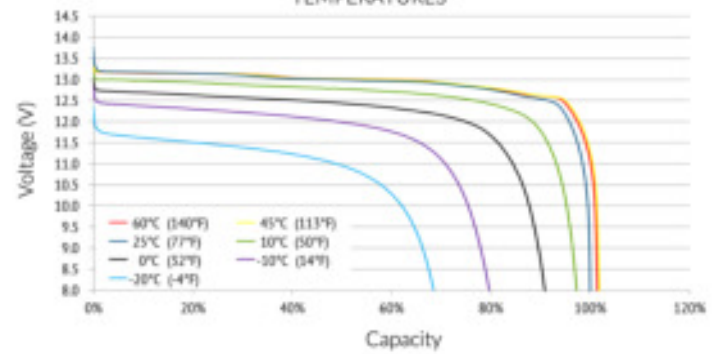
Cycle life vs depth of discharge (DOD)  
Discharge 0.5C / Charge 0.5 @ 25°C (77°F)



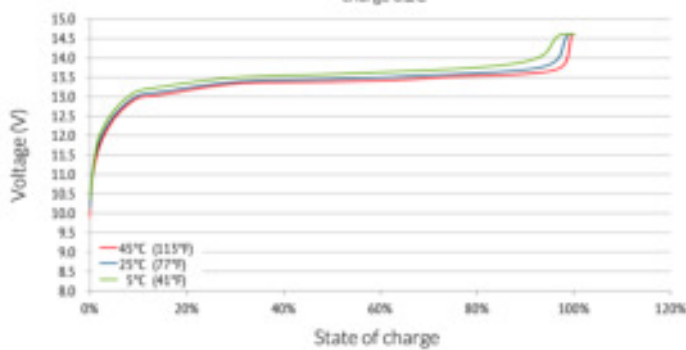
Discharge voltage characteristics at various RATES



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)

