

AVENTURA 12V 200Ah

Self-Heating in Option

Technical Specifications



CHARGE SPECIFICATIONS

Recommended Charge Current	5 A - 80 A (14.6V - 60 A)
Maximum Charge Current	150 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 to 45 °C
Discharge Temperature	-25 to 60 °C
High Disconnect Temperature	60 °C
High Reconnect Temperature	55 °C
Storage Temperature	-10 à 45 °C

AUTOHEATING SPECIFICATIONS (Optional)

Heating Temperature	-35 to 11 °C
Activation Current	9 A
Heating Current	6.7 A
Manual activation of heating function possible	YES

COMMUNICATIONS SPECIFICATIONS

Bluetooth	Dongle BT require (accessory)
Communication ports	SMBUS / RS485
LCD screen with battery voltage displayed	NO
Volthium CAN Hub Communication (VECAN)	Compatible

ELECTRICAL SPECIFICATIONS

Voltage	12.8 volt
Capacity	200 Ah
Capacity @ 20A	600 min
Energy	2560 Wh
Auto-Discharge	<3% per Month
Maximum Unit in Series	4
Maximum Unit in Parallel	4

DISCHARGE SPECIFICATIONS

Continuous Discharge Current	150A
Peak Discharge Current	200 A (30s)
Disconnect Charge Current	300 A (1s)
Low Voltage Disconnect	10 V
Low Voltage Reconnect	12 V
Short Circuit Protection	yes
Soft-Start Resistor (Avoid In-Rush)	NO

NUMBER OF CYCLES ACCORDING TO THE DISCHARGE %

Discharge 30%	8200< cycles
Discharge 80%	6000< cycles
Discharge 100%	3000< cycles

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

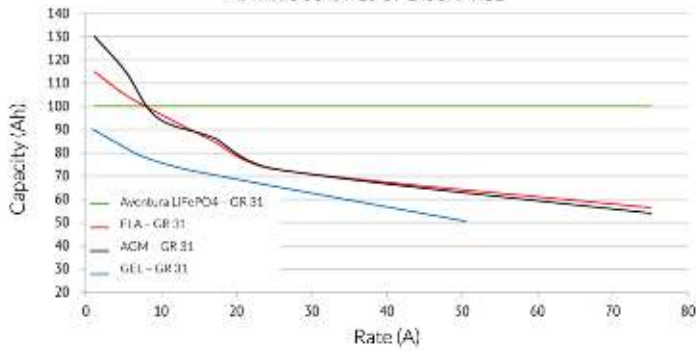
MECHANICAL SPECIFICATIONS

Dimensions (LxWxD) Group 8D	482 x 245 x 170 mm 19 x 9.64 x 6.7 po
Weight	50 lbs
Terminal Type	M8
Ingress Protection Marking	IP65
Terminal torque requirement	8-10 nm / 6-8 ft/lb

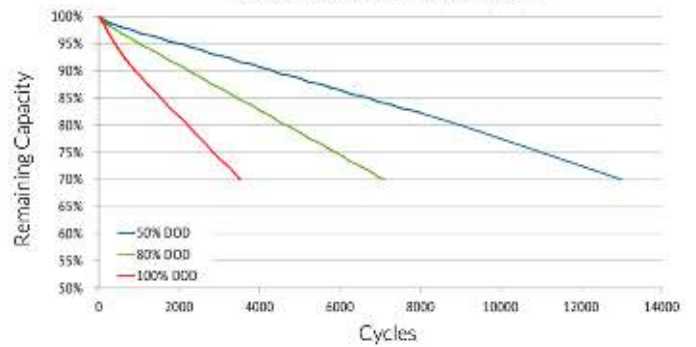
CERTIFICATIONS & CONCEPTION

Conception	4S2P
Certifications	Cells : UL1642 / UL1973 / UL9540A / IEC62619 / IEC62660
Shipping Classification	UN 3480 CLASS 9
Cell Type	SquareCell - LiFePO4 - 3.2V Grade A+

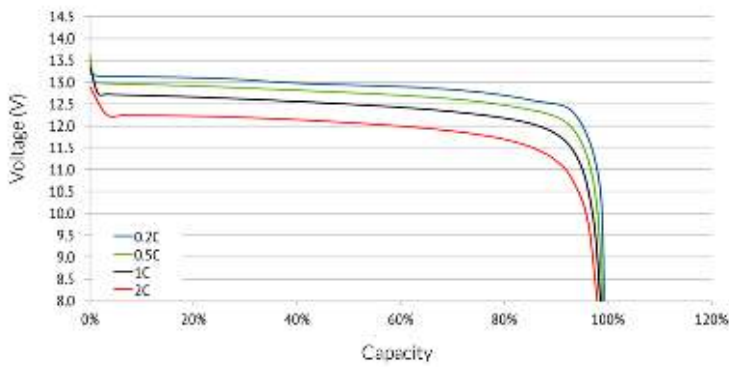
Aventura (LiFePO4) vs Lead Acid
At VARIOUS RATES OF DISCHARGE



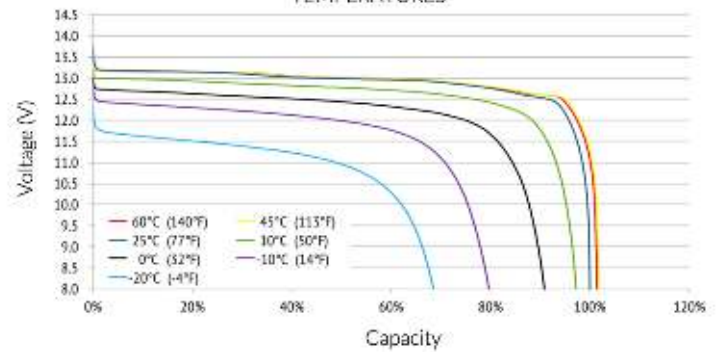
Cycle life vs depth of discharge (DOD)
Discharge 0.5C / Charge 0.5 @ 25°C (77°F)



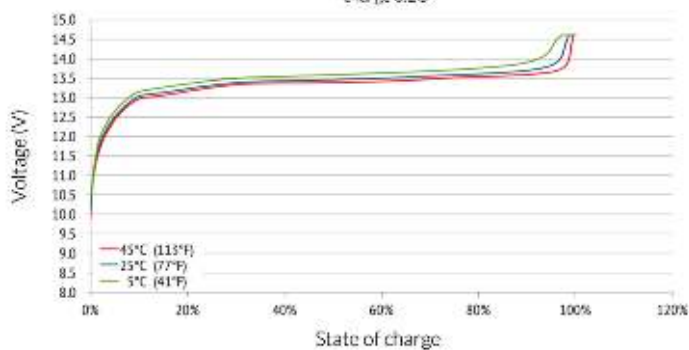
Discharge voltage characteristics at various RATES



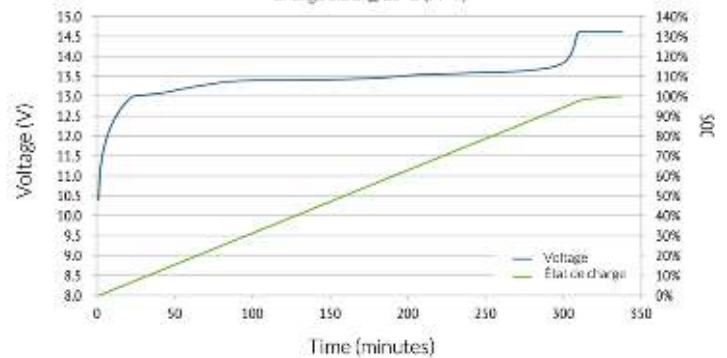
Discharge voltage characteristics at various TEMPERATURES



Charge voltage characteristics at various TEMPERATURE
charge 0.2C



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



FICHE TECHNIQUE 3

