

TECHNICAL DATA SHEET

AVENTURA 48V 100AH



Technical Specifications

ELECTRICAL SPECIFICATIONS	
Voltage	48V Volt
Capacity	100 Ah
Capacity @ 20A	300 min
Stored energy	4800 Wh
Self-Discharge	<3% per month
Maximum unit interconnections	0 in series; unlimited in parallel

TEMPERATURE SPECIFICATIONS	
Recommended charging temperature	0° C to 45 °C
Low temperature disconnect / reconnect when charging – BMS controlled	0 °C / 10 °C
Discharging temperature limits – BMS controlled	-20 to 60 °C
Low temperature disconnect / reconnect when discharging – BMS controlled	-25 °C / -20 °C
Recommended storage temperature	-10 to 50 °C
Recommended storage voltage	13.1V to 13.4V

CHARGE SPECIFICATIONS	
Recommended charging current	5 A - 50 A (54V - 60A)
Maximum charging current	80 A (100 A for 15min)
Recommended charging voltages	54V – 54.75V (Bulk) 51 V (Float)
Charging high voltage disconnect – BMS controlled	57.75 V (2s)
Charging high voltage reconnect – BMS controlled	54 V
Charging high temperature disconnect / reconnect – BMS controlled	55 °C / 50 °C

COMMUNICATIONS SPECIFICATIONS	
Bluetooth	Requires BT dongle (optional accessory)
Communication ports	RS485
LCD screen on battery	Not available
Volthium CAN Hub Communication (VE.CAN)	Compatible
Volthium Bluetooth Dongle	Compatible

DISCHARGE SPECIFICATIONS	
Maximum continuous discharge current	100A (200A @ 30 Sec)
Discharging low voltage disconnect – BMS controlled	37.5V (3s)
Discharging low voltage reconnect – BMS controlled	43 V
Short circuit protection – BMS controlled	Yes
Discharging high temperature disconnect / reconnect – BMS controlled	65 °C / 60 °C

AUTO-HEATING SPECIFICATIONS (OPTIONAL)	
Operating temperature range	-35° à 11 °C
Required activation current	7 A
Operating current	4 A
Self heating activation	Automatic + Manual (Dual)

NUMBER OF DISCHARGE CYCLES VS DEPTH OF DISCHARGE %	
30% depth of discharge	8200 < cycles
80% depth of discharge	6000 < cycles
100% depth of discharge	3500 < cycles

Remaining integrity (SOH) of 83% after 3560 discharge cycles at 100% depth of discharge

MECHANICAL SPECIFICATIONS	
Dimensions (Length x Width x Hight)	520 x 268 x 244 mm 20.47 x 10.55 x 9.6 inches
Weight	98 lbs. / 44 KG
Terminal type	M8
Format	ABS 8D
Terminal torque requirement	8-10 nm / 6-8 ft/lb

CERTIFICATIONS & CONCEPTION	
Conception	15S1P
Certifications	UI1642 UL1973 UL9540A IEC62619 IEC62660 RoHS
Shipping classification	UN 3480 CLASS 9
Cell type	SquareCell - LiFePO4 - 3.2V102Ah - Grade A+

Dimensions in mm

