

TECHNICAL SHEET

51.2V 100AH BATTERY



Self-Heating (optional \$)



ELECTRICAL SPECIFICATIONS

Voltage	51.2 volt
Capacity	100 Ah
Capacity @ 20A	300 min
Energy	5120 Wh
Auto-discharge	<1% per month
Maximum unit in parallel	Up to 16 in parallel

CHARGE SPECIFICATIONS

Recommended charge current	60 A
Maximum charge current	80 A (120 A for 15min)
Recommended charge voltage	56 V (Bulk) 54.4 V (Float)
High voltage disconnect (BMS)	60 V (1s)
High voltage reconnect (BMS)	55.2 V

AUTOHEATING SPECIFICATIONS (OPTIONAL)

Heating temperature	-30 to 11 °C
Activation current	8 A
Heating current	5.5 A

TEMPERATURE SPECIFICATIONS

Discharge temperature	-20 to 55 °C
Charge temperature	0 to 45 °C
High disconnect temperature / Reconnection in charge (BMS)	70 °C / 60 °C
Low disconnect temperature / Reconnection in charge (BMS)	0 °C / 5 °C
Storage temperature	-20 to 45 °C
Voltage storage	>53V
High disconnect temperature / Reconnection in discharge (BMS)	75 °C / 65 °C
Low disconnect temperature / Reconnection in discharge (BMS)	-20 °C / -10 °C

DISCHARGE SPECIFICATIONS

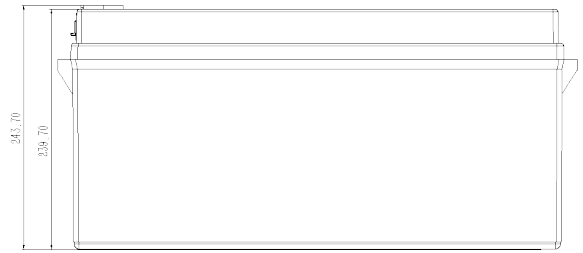
Continuous discharge current	125A
Peak discharge current 1	200 A (30s)
Low voltage disconnect (BMS)	43.2 V
Short circuit protection	Yes

COMMUNICATIONS SPECIFICATIONS

Bluetooth	Requires BT dongle (optional accessory)
Communication ports	R5485 / CAN
Volthium CAN Hub Communications (VE.CAN)	Compatible
Match Inverter Protocol	Victron, Solark, Schneider, LuxPower

NUMBER OF CYCLES ACCORDING TO THE DISCHARGE %

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



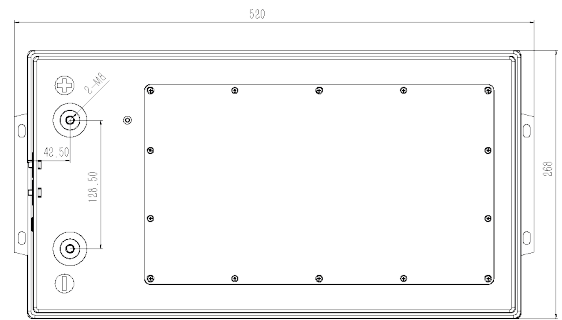
MECHANICAL SPECIFICATIONS

Dimensions (LxWxH)
Group 8D 520 X 443,7 X 268 mm
20.48 X 17.48 X 10.55 po

Weight 104 lbs

Terminal type M8

Communication interface RS485 & CAN (Victron VE.CAN / SolArk / Growatt / Schneider...)



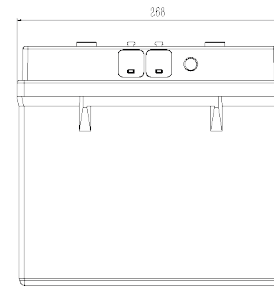
CERTIFICATIONS & CONCEPTION

Conception 16S1P

Certifications Full Pack Assembly ETL SP-1000 | Cells UL1973 & CSA UL9540A | IEC62619 | IEC62660 | Breaker UL1077 @ CSA C22.2 No. 235-04 | Terminal UL1977

Shipping classification UN 3480 | CLASS 9

Cell Type SquareCell - LiFePO4



DEFINITION

COM 1

Pin-1	RS485-B	Inverter communication
Pin-2	RS485-A	
Pin-3	/	
Pin-4	CAN-H	Inverter communication
Pin-5	CAN-L	
Pin-6	/	
Pin-7	Link-A	Parallel communication
Pin-8	Link-B	

DEFINITION

COM 2

Pin-1	Dry Contact (-)	1) If trigger warning/ protection, dry contact will close it. (NC) 2) Normally state : No
Pin-2	Dry Contact (+)	
Pin-3	/	
Pin-4	Tx	RS232 communication
Pin-5	Rx	
Pin-6	GND	
Pin-7	Remote SW+	Remote switch
Pin-8	Remote SW-	