Volthium

Alimentez le futur
Powering the future

TECHNICAL SHEET
48 V 100 Ah



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Before using your Volthium battery, please read the user manual and the datasheet specific to your battery.
You can find these documents by clicking on the following link: https://volthium.com/en/documents/
Any improper use of the product may void its warranty.
For any additional questions, please contact Volthium technical support.

ELECTRICAL SPECIFICATIONS	
Voltage	48 volt
Capacity	100 Ah
Capacity @ 20A	300 min
Energy	4800 Wh
Self-discharge	< 3% per month
Maximum unit in series	0
Maximum unit in parallel	Unlimited

CHARGE SPECIFICATIONS	
Recommended charge current	5 A - 50 A
Maximum charge current	80 A
Recommended charge voltage	54 V - 54.75 V (Bulk) | 51 V (Float)

DISCHARGE SPECIFICATIONS	
Continuous discharge current	100 A
BMS – Discharge disconnect voltage	37.5 V
BMS – Discharge reconnection voltage	43 V
Short circuit protection	Yes

TEMPERATURE SPECIFICATIONS	
Discharge temperature	From -30 to 60°C
Charging temperature	From 0 to 45°C

STORAGE SPECIFICATIONS	
Storage temperature	From -20 to 45°C
Storage voltage	From 49.1 V to 50.3 V

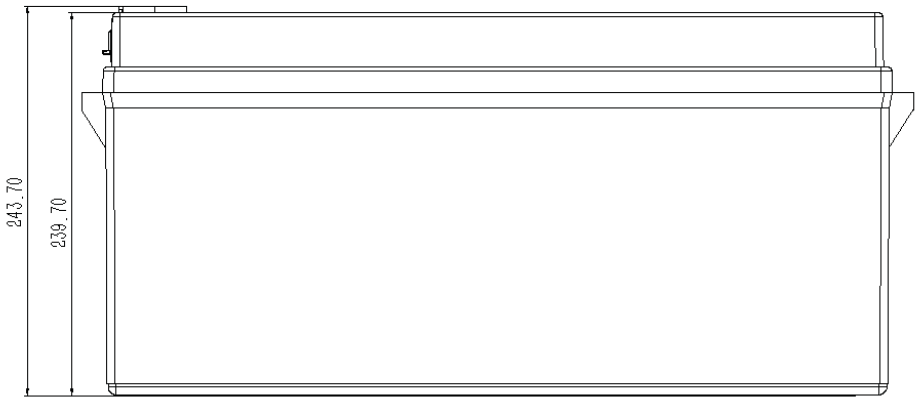
COMMUNICATIONS SPECIFICATIONS	
Bluetooth	Optional
Communication ports	RS485
LCD screen	No
Volthium CAN Hub Communication (VE.CAN)	Compatible

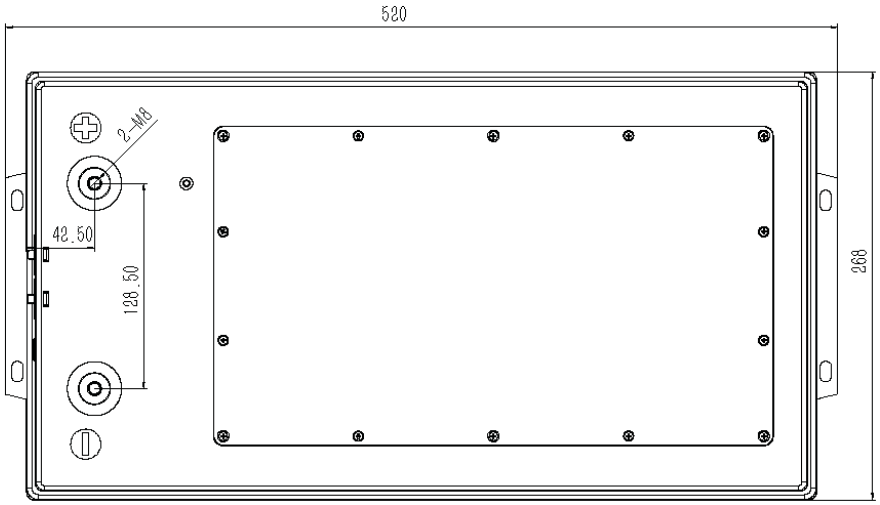
HEATING SPECIFICATIONS	
Activation temperature	From -35 to 11°C
Activation current	7 A
Heating current	4 A
System activation mode	Automatic

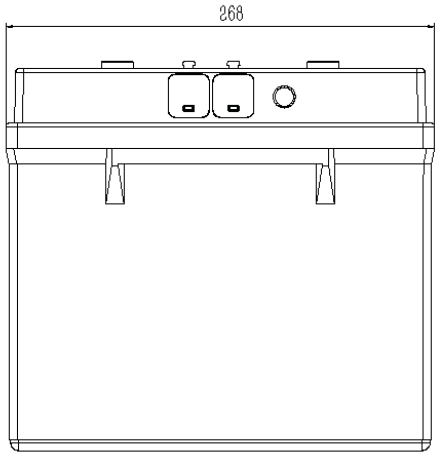
NUMBER OF CYCLES ACCORDING TO THE AVERAGE DISCHARGE % OF USE	
30% discharge	8200 < cycles
80% discharge	6000 < cycles
100% discharge	3500 < cycles

MECHANICAL SPECIFICATIONS	
Dimensions	520 X 268 X 243,7 mm | 20.5 X 10.5 X 9.6 po
Group / format	GR8D
Weight	44kg | 98 lbs
Terminal Type	M8
Tightening torque on terminals	8~10nm / 6-8 ft/lb
Ingress protection rating	IP55 (Against low-pressure water jets and dust)

CERTIFICATIONS & DESIGN	
Design	15S1P
Certifications	Cells : UL1642 / UL1973 /UL9540A / IEC62619 / IEC62660 / RoHs
Shipping classification	UN 3480 | CLASS 9
Cell type	SquareCell - LiFePO4 - 3.2 V - 102 Ah - Grade A+


243.70
239.70


530
2-M8
42.50
128.50
268


268