Volthium

Alimentez le futur
Powering the future

TECHNICAL SHEET
12 V 50 Ah Plus



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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	12.8 volt
Capacity	50 Ah
Capacity @ 20A	150 min
Energy	640 Wh
Self-discharge	< 3% per month
Maximum unit in series	4
Maximum unit in parallel	Unlimited

CHARGE SPECIFICATIONS	
Recommended charge current	30 A
Maximum charge current	50 A
Recommended charge voltage	14.2 V - 14.6 V (Bulk) | 13.8 V (Float)

DISCHARGE SPECIFICATIONS	
Continuous discharge current	50 A
BMS – Discharge disconnect voltage	11 V
BMS – Discharge reconnection voltage	11.6 V
Short circuit protection	Yes

TEMPERATURE SPECIFICATIONS	
Discharge temperature	From -20 to 60°C
Charging temperature	From 0 to 45°C

STORAGE SPECIFICATIONS	
Storage temperature	From 15 to 35°C
Storage voltage	From 13.1 V to 13.3 V

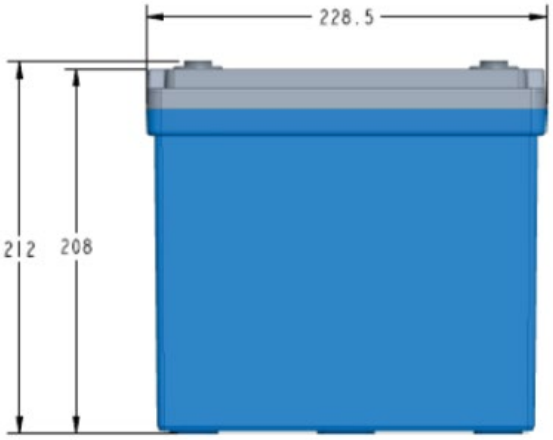
COMMUNICATIONS SPECIFICATIONS	
Bluetooth	Embedded
Communication ports	No
LCD screen	No
Volthium CAN Hub Communication (VE.CAN)	No

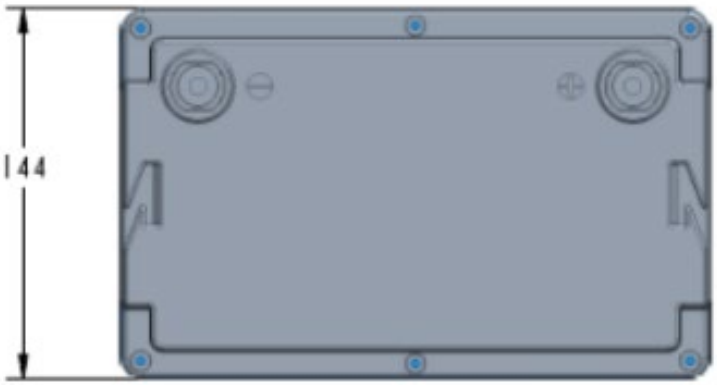
HEATING SPECIFICATIONS	
Activation temperature	From -45 to 11°C
Activation current	6 A
Heating current	4 A
System activation mode	Automatic

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	228,5 X 144 X 208 mm | 9 X 5.7 X 8.1 po
Group / format	BCI 22NF
Weight	6.5kg | 14.3 lbs
Terminal Type	M6
Tightening torque on terminals	8~10 nm / 6~8 ft/lb
Ingress protection rating	IP65

CERTIFICATIONS & DESIGN	
Design	4S4P
Certifications	CE | UL1973 | RoHS | IEC62619 | ABYC E-13
Shipping classification	UN 3480 | CLASS 9
Cell type	SquareCell - LiFePO4 - 3.2 V - 25 A Grade A+


228.5
212
208


144

