Volthium

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Powering the future

TECHNICAL SHEET
12 V 100 Ah - GR24



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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	100 Ah
Capacity @ 20A	300 min
Energy	1280 Wh
Self-discharge	< 3% per month
Maximum unit in series	4
Maximum unit in parallel	4

CHARGE SPECIFICATIONS	
Recommended charge current	50 A
Maximum charge current	100 A
Recommended charge voltage	14.2 V - 14.6 V (Bulk) | 13.6 V - 13.8 V (Float)

DISCHARGE SPECIFICATIONS	
Continuous discharge current	100 A
BMS – Discharge disconnect voltage	10 V
BMS – Discharge reconnection voltage	12 V
Short circuit protection	800 A / 500 us
Allowed MAX discharge current	350 A | @ 3 S

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

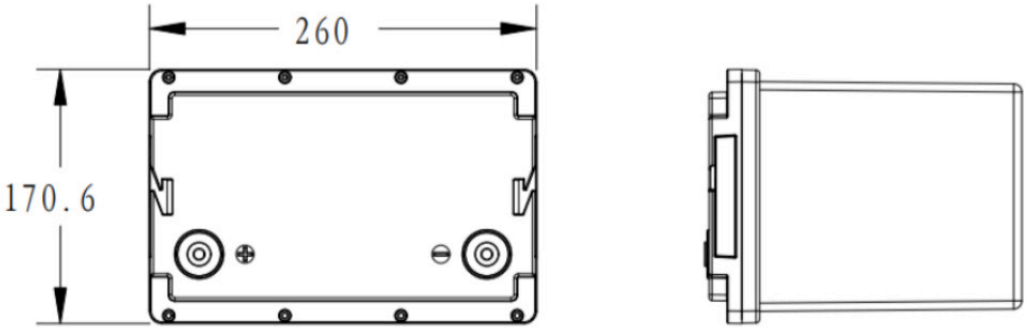
STORAGE SPECIFICATIONS	
Storage temperature	From 15 to 35°C
Storage voltage	From 13.1 V to 13.3 V

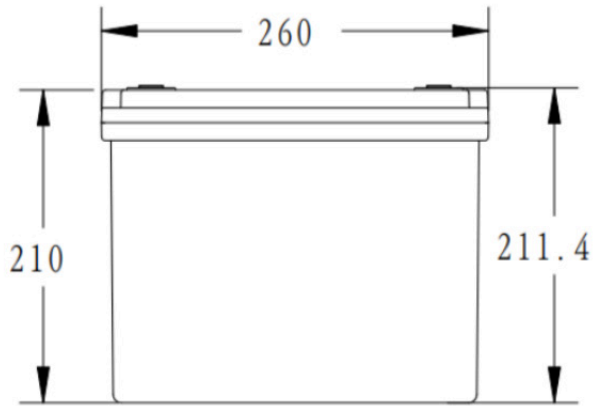
COMMUNICATIONS SPECIFICATIONS	
Bluetooth	Yes (Volthium Pro Series app)
Communication ports	No
LCD screen	No

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	260 X 170 X 210 mm | 10.2 X 6.7 X 8.3 po
Group / format	GR24
Weight	9.5kg | 20 lbs
Terminal Type	M8
Tightening torque on terminals	8~10 nm
Ingress protection rating	IP66 (Against dust and low-pressure water jet)

CERTIFICATIONS & DESIGN	
Design	4S5P
Certifications	CE | UL1642 (Cells) | RoHS
Shipping classification	UN 3480 | CLASS 9
Cell type	Cylindrical - LiFePO4 - 3.2 V 20 A Grade A+


260
170.6


260
210
211.4

