Volthium

Alimentez le futur
Powering the future

TECHNICAL SHEET
12 V 300 Ah



Volthium Energy inc. | T. 514.989.9586 | info@volthium.com | www.volthium.com

Volthium
Alimentez le futur
Powering the future

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	300 Ah
Capacity @ 20A	900 min
Energy	3840 Wh
Self-discharge	< 3% per month
Maximum unit in series	4
Maximum unit in parallel	4

CHARGE SPECIFICATIONS	
Recommended charge current	5 A - 80 A
Maximum charge current	150 A
Recommended charge voltage	14.2 V - 14.6 V (Bulk) | 13.6 V (Float)

DISCHARGE SPECIFICATIONS	
Continuous discharge current	250 A
BMS – Discharge disconnect voltage	10 V
BMS – Discharge reconnection voltage	12 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 13.1 V to 13.3 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	11 A
Heating current	9 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 | 20.47 X 10.55 X 9.6 po
Group / format	GR8D
Weight	33.1kg | 73 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	4S3P
Certifications	Cells : UL1642 / UL1973 / UL9540A / IEC62619 / IEC62660
Shipping classification	UN 3480 | CLASS 9
Cell type	SquareCell - LiFePO4 - 102 Ah - 3.2 V - Grade A+





