Volthium

Alimentez le futur
Powering the future

TECHNICAL SHEET
RACKMOUNT 3U
51.2 V 100 Ah



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

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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 result in the invalidation of its 10-year warranty.
For any additional questions, please contact Volthium technical support.

ELECTRICAL SPECIFICATIONS	
Voltage	51.2 volt
Capacity	100 Ah
Capacity @ 20A	300 min
Energy	5120 Wh
Self-discharge	< 3% per month
Maximum unit in series	Contact us
Maximum unit in parallel	32

CHARGE SPECIFICATIONS	
Recommended charge current	≤50 A
Maximum charge current	70 A
Recommended charge voltage	56 V (Bulk) | 54.6 V (Float)

DISCHARGE SPECIFICATIONS	
Continuous discharge current	100 A
BMS – Disconnect voltage	43.2 V ~ 45 V
BMS – Discharge reconnection voltage	52 V
Short circuit protection	Yes

TEMPERATURE SPECIFICATIONS	
Discharge temperature	From -20 to 65°C
Charging temperature	From 0 to 45°C

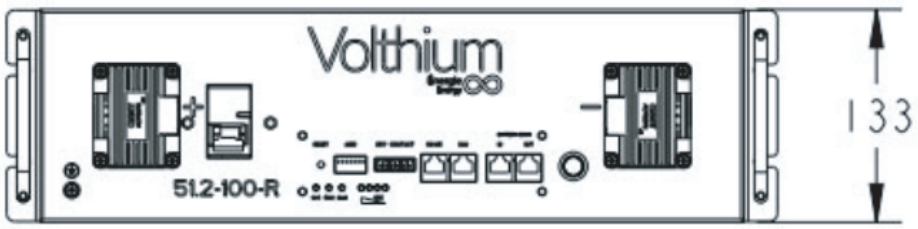
STORAGE SPECIFICATIONS	
Storage temperature	From -20 to 45°C
Storage voltage	From 52.4 V to 53.6 V

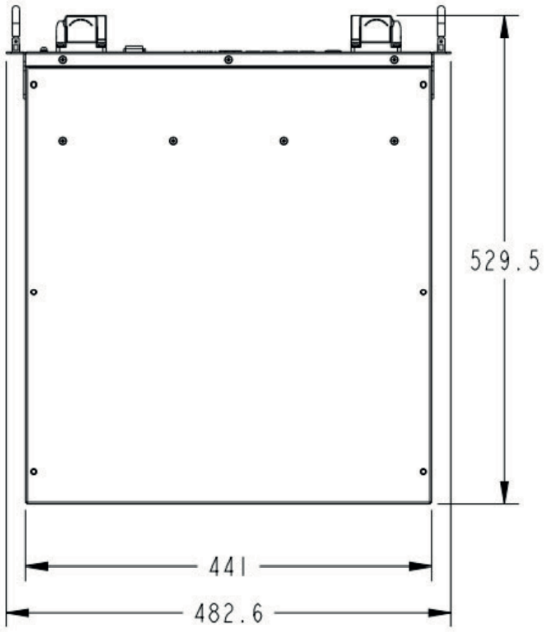
COMMUNICATIONS SPECIFICATIONS	
Bluetooth	No
Communication ports	2x RS485 | 2x Batt. Com. | 1x CAN
LCD screen	No
Volthium CAN Hub Communication (VE.CAN)	Compatible

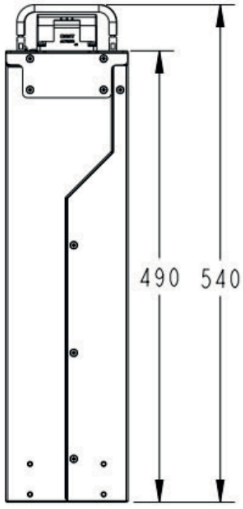
NUMBER OF CYCLES ACCORDING TO THE AVERAGE DISCHARGE % OF USE	
30% discharge	8200 < cycles
80% discharge	6000 < cycles
100% discharge	3500 < cycles

MECHANICAL SPECIFICATIONS	
Dimensions	529.5 X 482.6 X 133 mm | 21 X 19 X 5.3 po
Group / format	3U
Weight	45.8kg | 101 lbs
Terminal Type	M10
Tightening torque on terminals	8~10nm / 6-8 ft/lb
Ingress protection rating	IP20 (Against solid objects larger than 12 mm)

CERTIFICATIONS & DESIGN	
Design	16S1P
Certifications	Module : Full ETL UL1973 3rd Edition, UL9540A. Full Battery Bank Certified UL9540
Shipping classification	UN 3480 | CLASS 9
Cell type	SquareCell - LiFePO4


Volthium
S12-100-R
133


529.5
441
482.6


490
540