

DATA SHEET

51 V 100 Ah



Real Time Monitor



GENERAL SPECIFICATIONS

Model	GT51V100-GC-A20
Chemistry	LiFePO4
Nominal Voltage	51.2 V
Nominal Capacity	100 Ah
Nominal Energy	5120 Wh
Cycle Life	> 2000 cycles @ 1 C, 100% DOD

MECHANICAL SPECIFICATIONS

Dimensions (L x W x H)	15.75 in x 11.81 in x 9.45 in
Weight	94.6 lbs
Casing Material	Metal
Terminal Type	M8
Enclosure Protection	IP56

TEMPERATURE SPECIFICATIONS

Charge Temperature	0 °C to 45 °C (32 °F to 113 °F)
Discharge Temperature	-30 °C to 60 °C (-22 °F to 140 °F)
Storage Temperature	-40 °C to 60 °C (-40 °F to 140 °F)
BMS High Temperature Cutoff	80 °C (176 °F)

OTHER SPECIFICATIONS

Self-Discharge	2% per month
Efficiency	99%
Bluetooth	Yes
Low Temperature Heating	Yes
Communication	RS485 BMS Monitor
SOC Display (Optional)	LCD Indicator

Manufactured and distributed by Grand Teton Energy Systems.

Performance may vary depending on application. All specifications and operating conditions are subject to change without notice. This data is provided for evaluation purposes only and does not imply any warranty or guarantee. Grand Teton Energy Systems. All rights reserved.

Version 005 - Revised 03-18-2026

CHARGE SPECIFICATIONS

Charge Voltage	57.6 to 59.2V
Charge Mode	CC-CV
Recommended Charge Current	50 A
Maximum Charge Current	100 A
BMS Charge Cutoff Voltage	62.4 V
Recommended Float Voltage	55.2 V

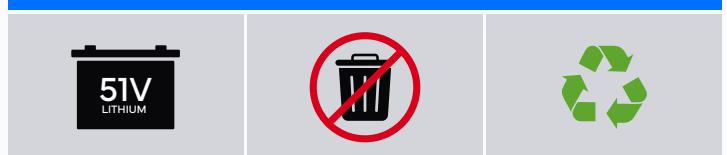
DISCHARGE SPECIFICATIONS

Continuous Discharge Current	200 A
BMS Discharge Cutoff Voltage	32 V
Recommended Voltage Disconnect	40 V
Reconnect Voltage	36.8 V
Pulse Discharge Current	300 A (< 3 seconds)
Short Circuit Protection	200 to 600 us

COMPLIANCE SPECIFICATIONS

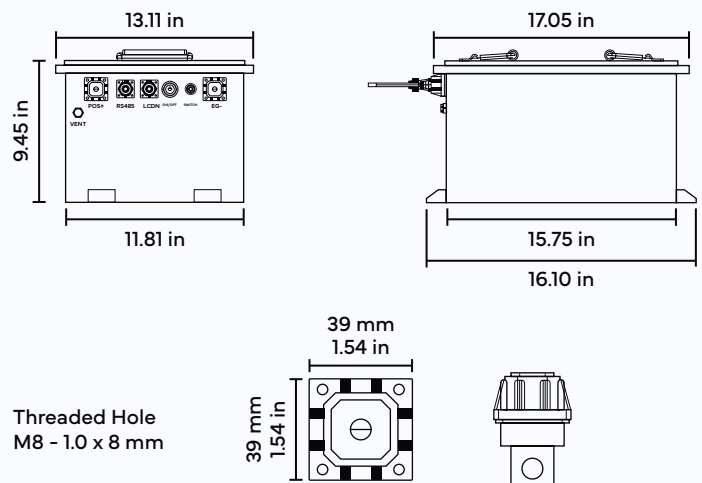
Certifications	CE UL1973 IEC62619 & CB KC BIS
Shipping Classification	UN3480 Class 9 UN38.3

BATTERY RECYCLE



NOTE: Do not mix with sealed lead-acid batteries when recycling. Refer to the Grand Teton user manual for proper operation.

BATTERY DIMENSIONS



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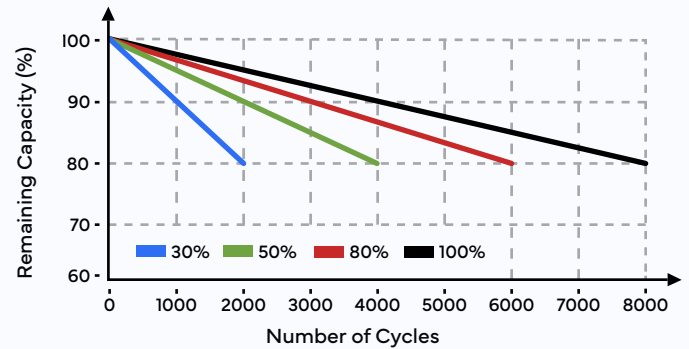


BATTERY APPLICATIONS

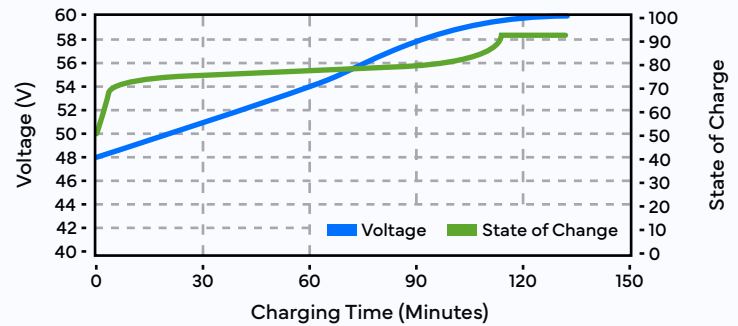
- ⚡ Aerial Work Platforms
- ⚡ Floor Cleaning Machines
- ⚡ Electric Mobility (E-scooters, Wheelchairs)
- ⚡ Golf Carts
- ⚡ Medical Devices
- ⚡ Passenger Vehicles



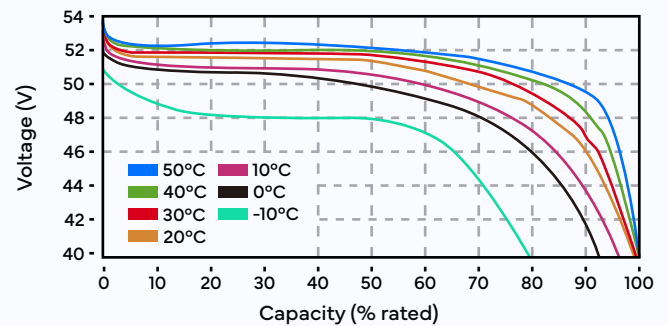
PERFORMANCE CHARACTERISTICS



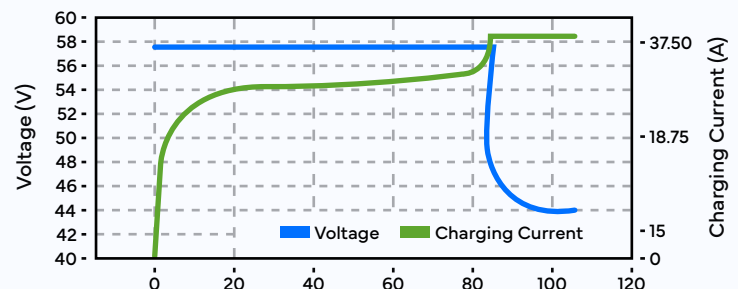
Cycle Life vs. Depth of Discharge (DOD)
Discharge @ 0.5C, 25 °C



State of Charge Curve @ 0.5C, 25 °C



Discharge Capacity at Various Temperatures
Discharge @ 0.5C, 25 °C



Charging Characteristics @ 0.5C, 25 °C