

DATA SHEET

24 V 160 Ah



GENERAL SPECIFICATIONS

Model	GT24V160-CAN-A20
Chemistry	LiFePO ₄
Nominal Voltage	25.6 V
Nominal Capacity	160 Ah
Nominal Energy	4096 Wh
Cycle Life	> 2000 cycles @ 100% DOD

MECHANICAL SPECIFICATIONS

Dimensions (L x W x H)	20.6 in x 8.97 in x 9.8 in
Weight	61.8 lb
Casing Material	ABS, UL-94 V-0
Terminal Type	M8
Enclosure Protection	IP56

TEMPERATURE SPECIFICATIONS

Charge Temperature	-30 °C to 45 °C (-22 °F to 113 °F)
Discharge Temperature	-40 °C to 60 °C (-40 °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%
Resistance	≤ 30 m Ω

 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 003 - Revised 01-22-2026

CHARGE SPECIFICATIONS

Charge Voltage	28.8 V to 29.6 V
Charge Method	CC-CV
Recommended Charge Current	80 A
Maximum Charge Current	160 A
BMS Charge Cutoff Voltage	31.2 V
Recommended Float Voltage	27.6 V

DISCHARGE SPECIFICATIONS

Continuous Discharge Current	160 A
BMS Discharge Cutoff Voltage	16 V
Reconnect Voltage	22.4 V
Pulse Discharge Current	320 A (< 3 seconds)
Recommended Voltage Disconnect	20 V
Short Circuit Protection	200 to 600 μs

COMPLIANCE SPECIFICATIONS

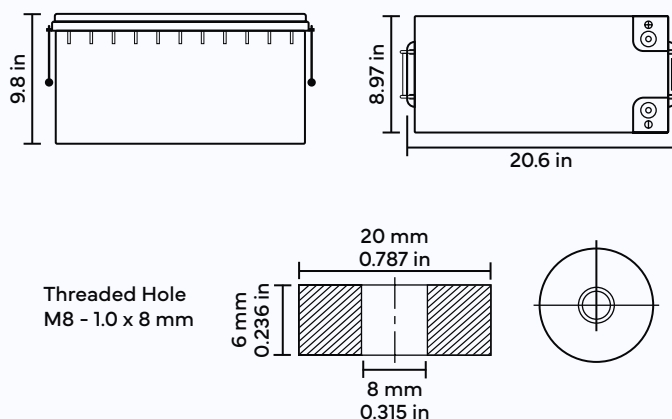
Certifications	CE UL 1642 (Cell) IEC62133 & CB KC BIS
Shipping Classification	UN3480 Class 9 UN38.3

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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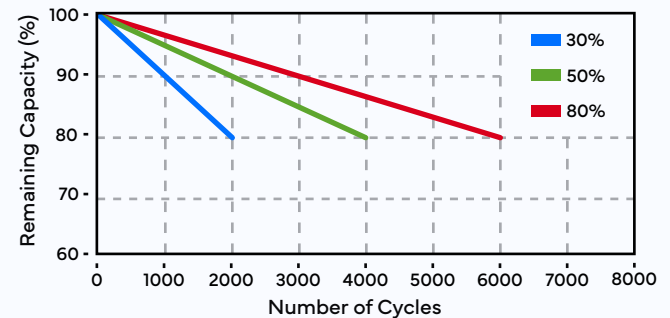


BATTERY APPLICATIONS

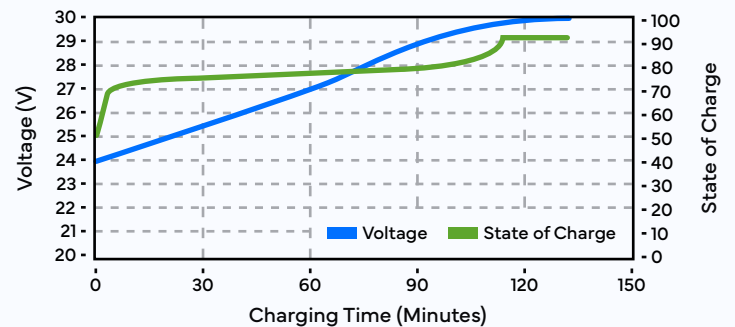
- ⚡ Data Center UPS
- ⚡ Telecom Backup Power
- ⚡ Military Power Supply
- ⚡ Solar Energy Storage Systems
- ⚡ Solar Street LED Lighting



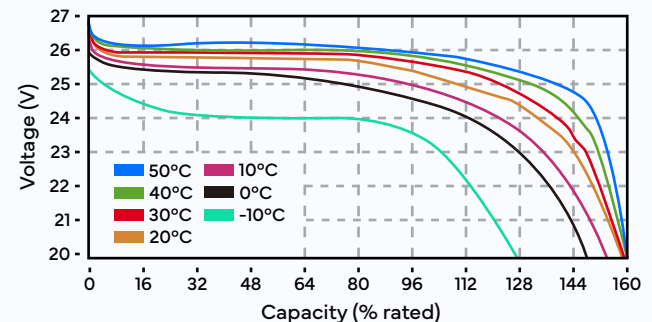
PERFORMANCE CHARACTERISTICS



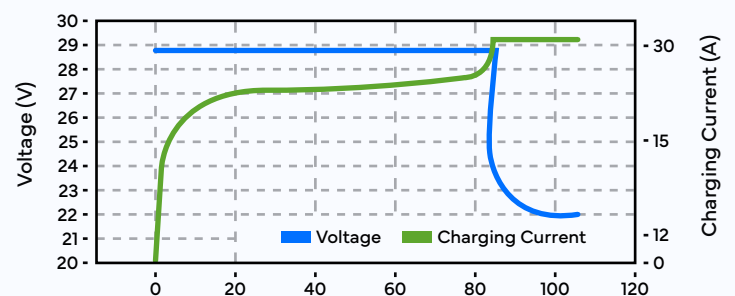
Cycle Life vs. Depth of Discharge (DOD)
Discharge @ 0.5C, 25 °C



State of Charge Curve @ 0.5C, 25 °C



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



Charging Characteristics @ 0.5C, 25 °C