

DATA SHEET

25.6V 160Ah - GT24V160-CAN-A20



Lithium Iron Phosphate Battery

ELECTRICAL PARAMETERS

Nominal Voltage	25.6V
Rated Capacity	160Ah
Energy	4096Wh
Resistance	$\leq 30\text{m}\Omega$
Efficiency	99%
Cycle Life	>2000 cycles @ 100% DOD
Self Discharge	2% per Month

DISCHARGE PARAMETERS

Continuous Discharge Current	160A
Pulse Discharge Current	320A (<3 seconds)
Recommended Volt. Disconnect	20V
BMS Discharge Cut-off Voltage	16V
Reconnect Voltage	22.4V
Short Circuit Protection	200~600 us

COMPLIANCE CERTIFICATE

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

 Manufactured and distributed by Grand Teton Energy Systems.

Performance may vary depending on application. All Specifications and operation conditions are subject to change without notice. This data is for evaluation purposes only. No guarantee is intended or implied by this data.

Version 001

BATTERY FEATURES & PERFORMANCE

FEATURES

- ⚡ Lithium Iron Phosphate (LiFePO₄): the Safest Lithium Technology
- ⚡ Integrated Battery Management System(BMS)
- ⚡ Bluetooth and CANBus Communication
- ⚡ Self-heating

PERFORMANCE

- ⚡ Long Cycle Life>2000cycles @100% DOD
- ⚡ High Density, High Discharge Current, High Temperature Range
- ⚡ Low Weight, Free Maintenance
- ⚡ Fast Charging
- ⚡ Environment Friendly

MECHANICAL PARAMETERS

Dimension (L x W x H)	20.6 in x 8.97 in x 9.8 in
Weight	61.8 lbs
Terminal Type	M8
Battery Housing	ABS, UL-94 V-0
Housing Protection	IP56
Cell Type-Chemistry	LiFePO ₄ Battery Cell

CHARGE PARAMETERS

Charge Method	CC-CV
Charge Voltage	28.8~29.6V
Recommended Float Voltage	27.6V
Recommended Charge Current	80A
Maximum Charge Current	160A
BMS Charge Cut-Off Voltage	31.2V

TEMPERATURE PARAMETERS

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

BATTERY RECYCLE



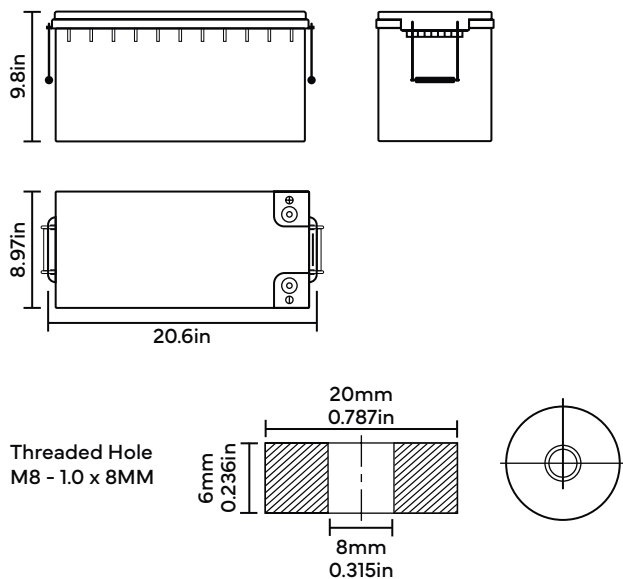
NOTE: Do Not Mix With Sealed Lead Acid Batteries When Recycling.
See Grand Teton User's Manual for Proper Operation.
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BATTERY DIMENSIONS

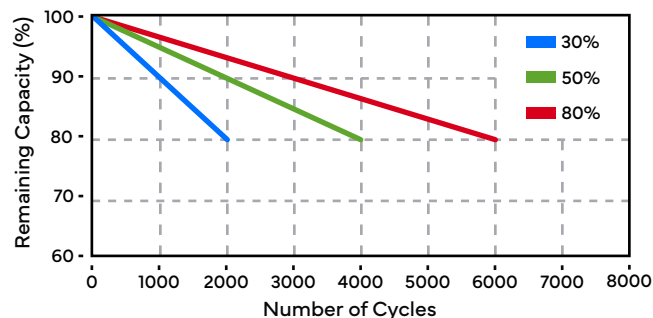


BATTERY APPLICATIONS

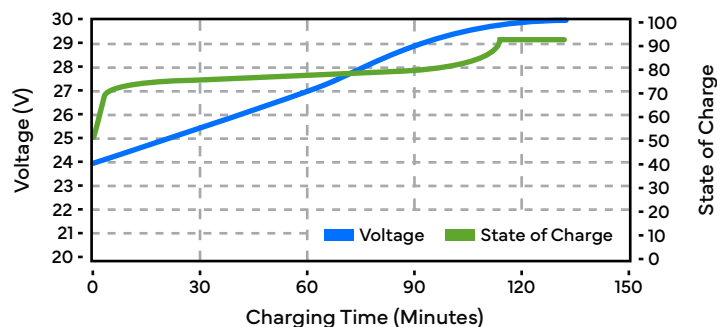
- ⚡ Data Center UPS
- ⚡ Telecom Backup Power
- ⚡ Military Power Supply
- ⚡ Solar Energy Storage System
- ⚡ Solar Street LED Lightings



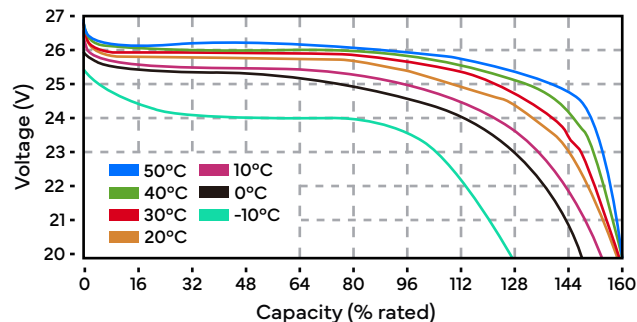
PERFORMANCE CHARACTERISTICS



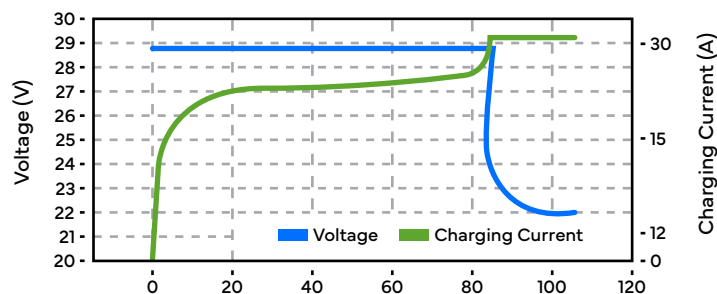
CYCLE LIFE vs. DEPTH OF DISCHARGE (DOD)
DISCHARGE @ 0.5C, 25°C



STATE OF CHARGE CURVE @ 0.5C, 25°C



DISCHARGE CAPACITY at VARIOUS TEMPERATURES
DISCHARGE @ 0.5C, 25°C



CHARGING CHARACTERISTICS @ 0.5C, 25°C