



Lithium Iron Phosphate Battery

ELECTRICAL PARAMETERS	
Nominal Voltage	12.8V
Rated Capacity	400Ah
Energy	5120Wh
Resistance	≤30 m Ω
Efficiency	99%
Cycle Life	>2000 cycles @ 100% DOD
Self Discharge	2% per Month

DISCHARGE PARAMETERS	
Continuous Discharge Current	200A
Pulse Discharge Current	1000A (<3 seconds)
Recommended Volt. Disconnect	10V
BMS Discharge Cut-off Voltage	10V
Reconnect Voltage	11.2V
Short Circuit Protection	200~600 us

COMPLIANCE CERTIFICATE	
	UL 1642
	CE
Certifications	IEC62133 & CB
	KC
	BIS
Shipping Classification	UN3480, Class 9, UN38.3

GRAND TETON 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 002

BATTERY FEATURES & PERFORMANCE

FEATURES

- ✓ Self-Heating

PERFORMANCE

- 🗲 High Density, High Discharge Current, High Temperature Range

MECHANICAL PARAMETERS	
Dimension (L x W x H)	20.6 in x 10.55 in x 8.8 in
Weight	99 lbs
Terminal Type	M8
Battery Housing	ABS, UL-94 V-0
Housing Protection	IP56
Cell Type-Chemistry	LiFePO4 Battery Cell

CHARGE PARAMETERS	
Charge Method	CC-CV
Charge Voltage	14.4~14.8V
Recommended Float Voltage	13.8V
Recommended Charge Current	100A
Maximum Charge Current	200A
BMS Charge Cut-Off Voltage	15.6V

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



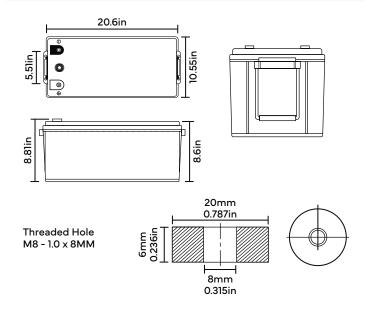




NOTE: Do Not Mix With Sealed Lead Acid Batteries When Recycling. See Grand Teton User's Manual for Proper Operation. Grand Teton Energy Systems All Rights Reserved.



BATTERY DIMENSIONS



BATTERY APPLICATIONS

- → Data Center UPS
- Military Power Supply
- ⋆ Solar Energy Storage System
- Solar Street LED Lightings
- # Autonomously Guided Vehicles (AGVs)
- Industrial Robotics & Handling Equipment
- ⋆ Aerial Work Platform
- Floor Cleaning Machines
- Power Tools, Lawn Mower
- Flectric Mobilities (E-scooters, Wheelchair)

- Passenger Vehicles





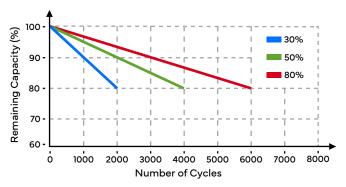




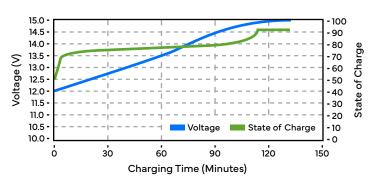




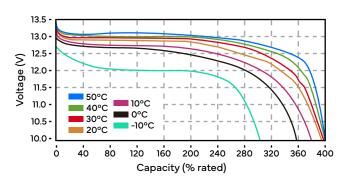
PERFORMANCE CHARATERISTICS



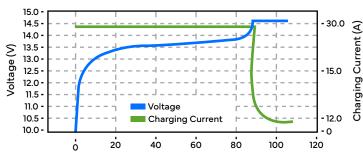
CYCLE LIFE vs. DEPTH OF DISCHARGE (DOD) DISCHARGE @ 0.5C, 25°C



STATE OF CHARGE CURVE @ 0.5C, 25°C



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



CHARGING CHARACTERISTICS @ 0.5C, 25°C