

DATA SHEET

12 V 100 Ah - Low Temperature Technology



GENERAL SPECIFICATIONS

Model	GT12V100-HRLTNH-A20
Chemistry	LiFePO ₄
Nominal Voltage	12.8 V
Nominal Capacity	100 Ah
Nominal Energy	1280 Wh
Cycle Life	4000 cycles @ 80% DOD

MECHANICAL SPECIFICATIONS


Dimensions (L x W x H)	12 in x 6.85 in x 8.6 in
Weight	35.4 lb
Casing Material	ABS
Terminal Type	M8
Enclosure Protection	IP67

TEMPERATURE SPECIFICATIONS

Charge Temperature	-30 °C to 55 °C
Discharge Temperature	-50 °C to 60 °C
Storage Temperature	-20 °C to 35 °C (< 18 months)

OTHER SPECIFICATIONS

Self-Discharge	< 3% per month
Parallel/Series Connection	4 parallel / 4 series support
Bluetooth App	Yes
Low Temperature Cell Tech	Works at -50 °C; no heater required

 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.

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CHARGE SPECIFICATIONS

Charge Voltage	14.6 V \pm 0.2 V
Charge Mode	CC-CV
Recommended Charge Current	50 A
Maximum Charge Current	100 A
BMS Charge Cutoff Voltage	14.6 V
Reconnect Voltage	14 V

DISCHARGE SPECIFICATIONS

Recommended Discharge Current	100 A
Maximum Continuous Discharge Current	200 A
Discharge Cutoff Voltage	10 V
Reconnect Voltage	60 s voltage self-recovery / charge-recovery
Peak Discharge Current	600 A for 10 s

COMPLIANCE SPECIFICATIONS

Certification (Battery Pack)	CE UN38.3 MSDS
Certification (Cell)	UL1642
Shipping Classification	UN3480 Class 9

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

