

Data Sheet

12.8V 100Ah - Low Temperature Technology



General Specifications

Model	GT12V100-HRLTNH-A20
Chemistry	LiFePO4
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 lbs
Casing Material	ABS
Terminal Type	M8
Enclosure Protection	IP67

Temperature Specifications

Charge Temperature	-30 °C to 55 °C (-22 °F to 131 °F)
Discharge Temperature	-50 °C to 60 °C (-58 °F to 140 °F)
Storage Temperature	-20 °C to 35 °C (-4 °F to 95 °F) (< 18 months)

Other Specifications

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

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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 seconds)

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

