

# DATA SHEET

## 12 V 100 Ah - High Rate



### GENERAL SPECIFICATIONS

|                  |                       |
|------------------|-----------------------|
| Model            | GT12V100-HRS-A20      |
| Chemistry        | LiFePO <sub>4</sub>   |
| 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    | 0 °C to 55 °C                 |
| Discharge Temperature | -20 °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                         |

 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 005 - Revised 01-12-2026

### 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

