

# TECHNICAL SHEET

## 12V 200Ah

### Aventura

Bluetooth / Self Heating

## TECHNICAL Specifications



#### ELECTRICAL SPECIFICATIONS

|                          |               |
|--------------------------|---------------|
| Voltage                  | 12.8 volt     |
| Capacity                 | 200 Ah        |
| Capacity @ 20A           | 600 min       |
| Energy                   | 2560 Wh       |
| Auto-Discharge           | <3% per Month |
| Maximum Unit in Series   | 4             |
| Maximum Unit in Parallel | 4             |

#### CHARGE SPECIFICATIONS

|                            |                 |
|----------------------------|-----------------|
| Recommended Charge Current | 5 A - 40 A      |
| Maximum Charge Current     | 150 A           |
| Recommended Charge Voltage | 14.2 V - 14.6 V |
| High Voltage Disconnect    | 18.45 V (2s)    |
| High Voltage Reconnect     | 18.3 V          |

#### DISCHARGE SPECIFICATIONS

|                              |             |
|------------------------------|-------------|
| Continuous Discharge Current | 150 A       |
| Peak Discharge Current       | 200 A (30s) |
| Disconnect Charge Current    | 300 A (1s)  |
| Low Voltage Disconnect       | 10 V        |
| Low Voltage Reconnect        | 11.2 V      |
| Short Circuit Protection     | yes         |

#### TEMPERATURE SPECIFICATIONS

|                                        |                             |
|----------------------------------------|-----------------------------|
| Charge Temperature                     | 32 to 113 °F (0 to 45 °C)   |
| Discharge Temperature                  | -4 to 140 °F (-20 to 60 °C) |
| Heating Temperature                    | -22 to 52 °F (-30 to 11 °C) |
| High Disconnect Temperature - Charge   | 131 °F (55 °C)              |
| High Disconnect Temperature- Discharge | 176 °F (70 °C)              |
| Storage Temperature                    | 14 to 113 °F (-10 à 45 °C)  |

#### NUMBER OF CYCLES ACCORDING TO THE DISCHARGE %

|                |             |
|----------------|-------------|
| Discharge 30%  | 8200 cycles |
| Discharge 80%  | 4250 cycles |
| Discharge 100% | 2500 cycles |

#### MECHANICAL SPECIFICATIONS

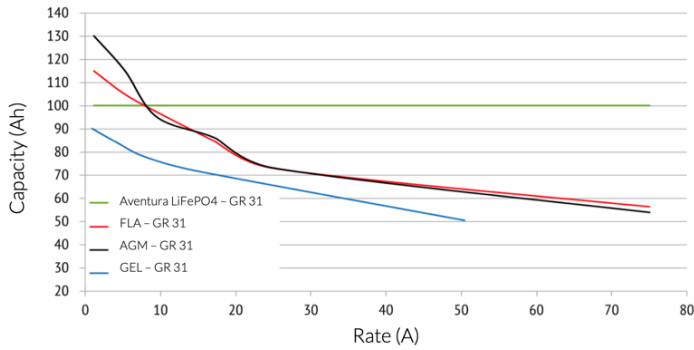
|                                |                                          |
|--------------------------------|------------------------------------------|
| Dimensions (LxWxH)<br>Group 4D | 483 x 170 x 240 mm<br>19 x 6.7 x 9.45 po |
| Weight                         | 53 lbs                                   |
| Terminal Type                  | M8                                       |
| Ingress Protection Marking     | IP65*                                    |

#### CERTIFICATIONS

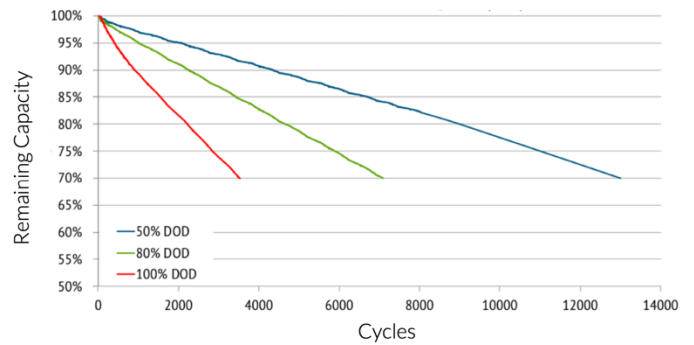
|                         |                      |
|-------------------------|----------------------|
| Certifications          | UL   CE   RoHs       |
| Shipping Classification | UN 3480   CLASS 9    |
| Cell Type               | SquareCell - LiFePO4 |
| Assemblage              | 4S2P                 |



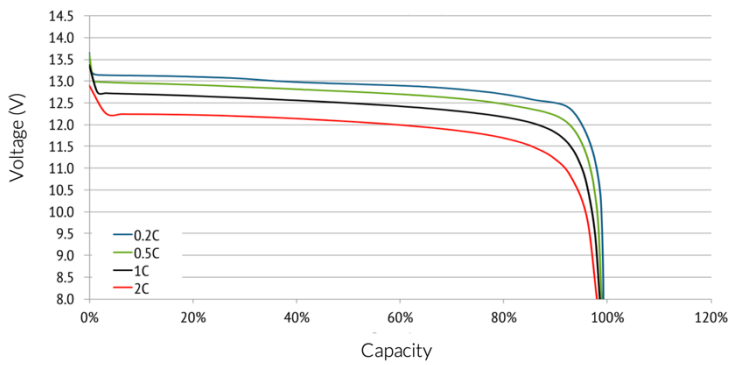
Aventura (LiFePO<sub>4</sub>) vs Lead Acid  
At VARIOUS RATES OF DISCHARGE



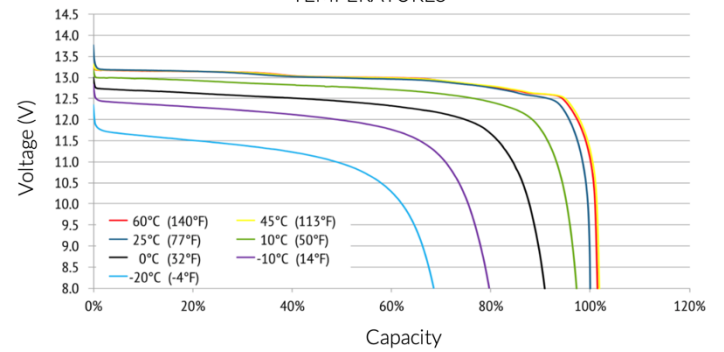
Cycle life vs depth of discharge (DOD)  
Discharge 0.5C / Charge 0.5 @ 25°C (77°F)



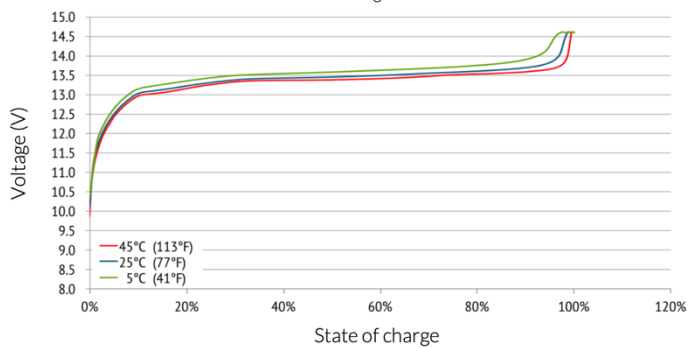
Discharge voltage characteristics at various RATES



Discharge voltage characteristics at various TEMPERATURES



Charge voltage characteristics at various TEMPERATURE  
charge 0.2C



Charge voltage and state of charge (SOC)  
Charge 0.2C @ 25°C (77°F)

