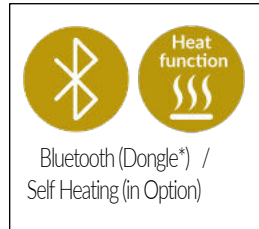


## AVENTURA 12V 200Ah

Self-Heating in Option

### Technical Specifications



#### CHARGE SPECIFICATIONS

|                            |  |
|----------------------------|--|
| Recommended Charge Current | 5 A - 80 A<br>(14.6V - 60 A)             |
| Maximum Charge Current     | 150 A                                    |
| Recommended Charge Voltage | 14.2 V - 14.6 V (Bulk)<br>13.6 V (Float) |
| High Voltage Disconnect    | 16.7 V                                   |
| High Voltage Reconnect     | 16.4 V                                   |

#### TEMPERATURE SPECIFICATIONS

|                             |              |
|-----------------------------|--------------|
| Charge Temperature          | 0 to 45 °C   |
| Discharge Temperature       | -25 to 60 °C |
| High Disconnect Temperature | 60 °C        |
| High Reconnect Temperature  | 55 °C        |
| Storage Temperature         | -10 à 45 °C  |

#### AUTOHEATING SPECIFICATIONS (Optional)

|  |              |
|--|--------------|
| Heating Temperature                            | -35 to 11 °C |
| Activation Current                             | 9 A          |
| Heating Current                                | 6.7 A        |
| Manual activation of heating function possible | YES          |

#### COMMUNICATIONS SPECIFICATIONS

|   |                               |
|---|-------------------------------|
| Bluetooth                                 | Dongle BT require (accessory) |
| Communication ports                       | SMBUS / RS485                 |
| LCD screen with battery voltage displayed | NO                            |
| Volthium CAN Hub Communication (VECAN)    | Compatible                    |

#### 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             |

#### DISCHARGE SPECIFICATIONS

|                                     |             |
|-------------------------------------|-------------|
| Continuous Discharge Current        | 150A        |
| Peak Discharge Current              | 200 A (30s) |
| Disconnect Charge Current           | 300 A (1s)  |
| Low Voltage Disconnect              | 10 V        |
| Low Voltage Reconnect               | 12 V        |
| Short Circuit Protection            | yes         |
| Soft-Start Resistor (Avoid In-Rush) | NO          |

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

|                |              |
|----------------|--------------|
| Discharge 30%  | 8200< cycles |
| Discharge 80%  | 6000< cycles |
| Discharge 100% | 3000< cycles |

Remaining integrity (SOH) of 83% after 3560 discharges cycles at 100% @ 1C

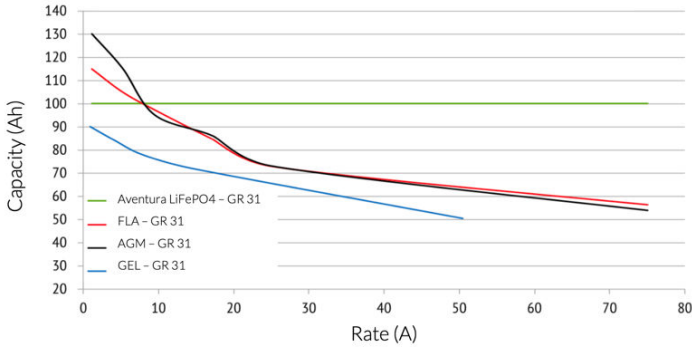
#### MECHANICAL SPECIFICATIONS

|                                |  |
|--------------------------------|--|
| Dimensions (LxWxD)<br>Group 8D | 482 x 245 x 170 mm<br>19 x 9.64 x 6.7 po |
| Weight                         | 50 lbs                                   |
| Terminal Type                  | M8                                       |
| Ingress Protection Marking     | IP65                                     |
| Terminal torque requirement    | 8-10 nm / 6-8 ft/lb                      |

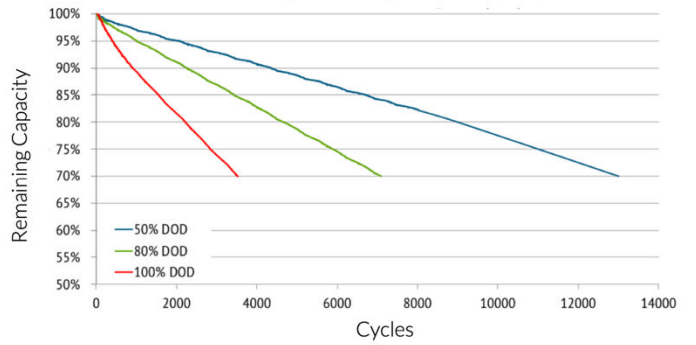
#### CERTIFICATIONS & CONCEPTION

|                         |   |
|-------------------------|---|
| Conception              | 4S2P  |
| Certifications          | Cells : UL1642 / UL1973 /<br>UL9540A / IEC62619 /<br>IEC62660 |
| Shipping Classification | UN 3480   CLASS 9   |
| Cell Type               | SquareCell - LiFePO4 - 3.2V<br>Grade A+                       |

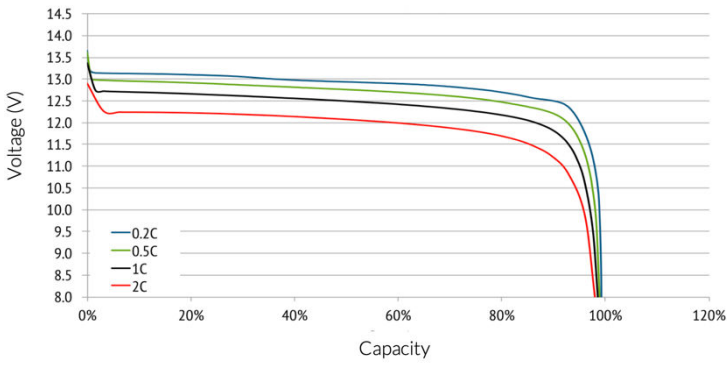
Aventura (LiFePO4) vs Lead Acid  
At VARIOUS RATES OF DISCHARGE



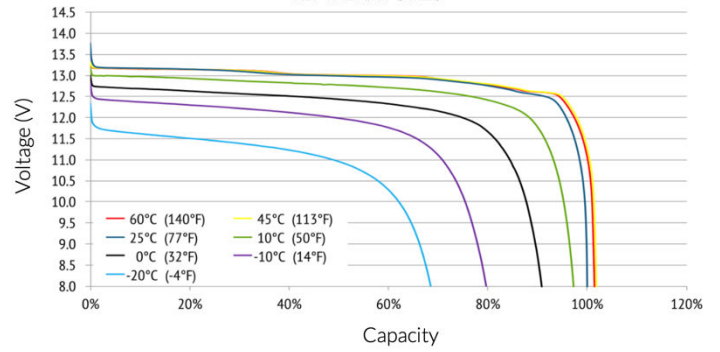
Cycle life vs depth of discharge (DOD)  
Discharge 0.5C / Charge 0.5 @ 25°C (77°F)



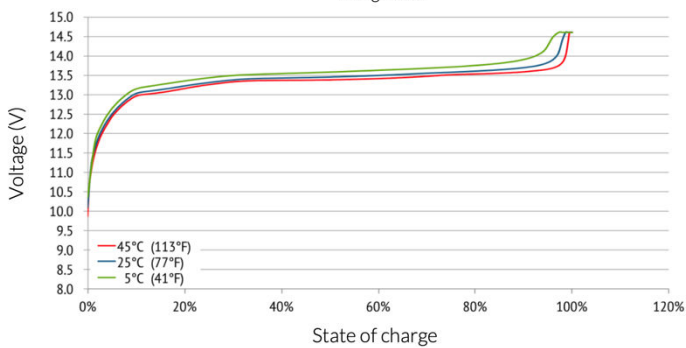
Discharge voltage characteristics at various RATES



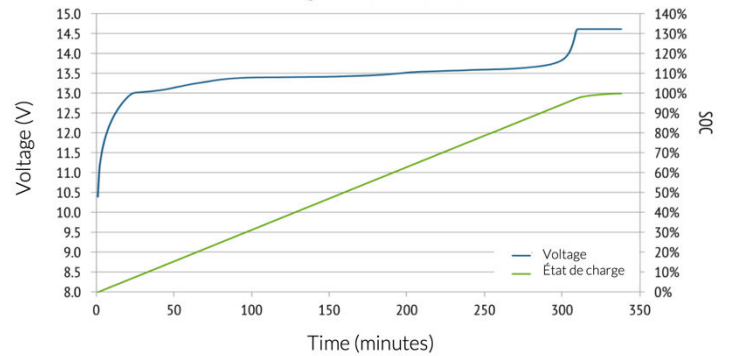
Discharge voltage characteristics at various TEMPERATURES



Charge voltage characteristics at various TEMPERATURE  
charge 0.2C



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



FICHE TECHNIQUE 3

