



## SP-48V160-GC LITHIUM (LIFEPO4) GOLF CART BATTERY

| General           |   |              |
|-------------------|---|--------------|
| Model:            | SP-48V160-GC  |              |
| Voltage:          | 51.2V   |              |
| Nominal Capacity: | 160Ah   |              |
| Case:             | Metal/FR  |              |
| Battery:          | Deep-cycle Lithium Iron Phosphate   |              |
| Color:            | Black   |              |
| Cycle life:       | 1C @ DOD 100%   | ≥3500 CYCLES |
|                   | 0.2C @ DOD 100%   | ≥6000 CYCLES |
| Intelligence:     | Microprocessors, SOC algorithm with charge and discharge end Calibration, Current sensor, Fuse, CAN Bus |              |

| Physical                 |                        |
|--------------------------|------------------------|
| Battery Type:            | Lithium Iron Phosphate |
| Rated Capacity:          | 160Ah                  |
| Nominal Voltage:         | 51.2V (16S)            |
| Standard Charge Voltage: | 58.4V                  |
| Stored Energy:           | 8192WH                 |
| IP Protection Level:     | IP67                   |
| Battery Weight:          | 145.50 LBS (66 KG)     |
| Battery Life:            | 10-12 Years            |
| BMS:                     | 250A                   |
| Communications           | CAN/ RS485/ Bluetooth  |
| Charger:                 | 15-50A (Optional)      |
| Impendence:              | ≤30mΩ                  |

| Current                           |   |
|-----------------------------------|---|
| Battery Pack Factory SOC:         | 50%   |
| Battery SOC Operating Range:      | 0-100%  |
| BMS Consumption:                  | Self-consumption current in sleep mode: <600uA<br>Self-consumption current during operation: <20mA  |
| Temperature Acquisition Accuracy: | ≤2 (° at room temperature)  |
| Current Acquisition Accuracy:     | ≤±10mV  |
| Equalizing Current:               | 100±30mA (Passive equalization )  |
| Protect Function:                 | Over-current protection, over-charge protection, over-discharge protection, high and low-temperature protection, and abnormal alarm function. |

| Charge / Discharge                 |                         |
|------------------------------------|-------------------------|
| Charging method:                   | CC-CV                   |
| Charge Current:                    | Normal 30A and Max 100A |
| Cut-off voltage:                   | 40V                     |
| MAX. Continuous Discharge Current: | 250A (BMS)              |
| Peak Discharge Current:            | 600A @3S                |
| Self-discharge rate/month:         | ≤3%/Month               |

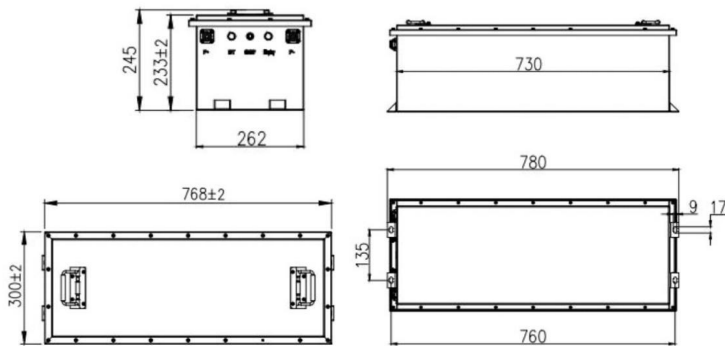
| Temperature         |             |          |
|---------------------|-------------|----------|
| Charge method       | Charge      | 0~55°C   |
|                     | Discharge   | -20~60°C |
| Storage environment | Temperature | 10~45°C  |
|                     | Humidity    | ≤ 75%RH  |



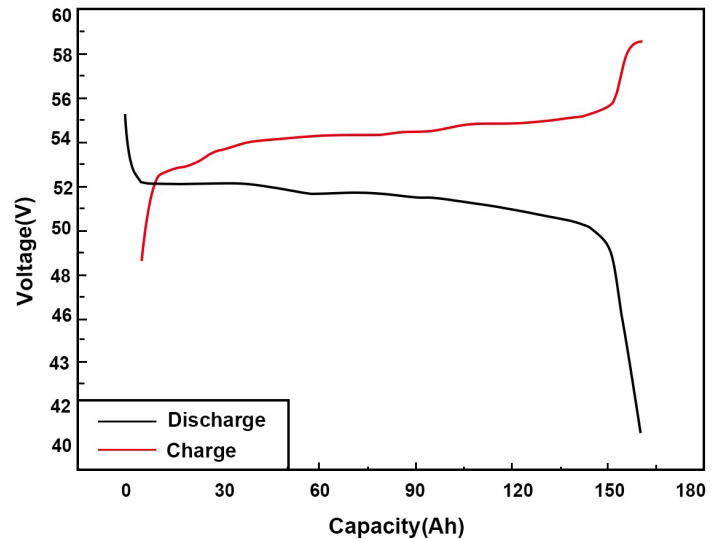
## SP-48V160-GC LITHIUM (LiFePO4) GOLF CART BATTERY

### Dimensional

Battery Dimensions: (L x W x H) 30.23" x 11.81" x 9.65"  
(768 x 300 x 245mm)



### Voltage Curve:



### Sonny Power Golf Cart LiFePO4 Battery Advantages:

#### 1 TOP BRAND Grade A Cell, Encased in Aluminum:

- Provides dimensional stability.
- Up to 10 years of design life and over 3,500 cycles.

#### 2 Steel Battery Bracket:

- Provides vibration and shock resistance.

#### 3 Bolted Connections to BMS:

- Provides stable mechanical and electrical connections.

#### 4 Positive and Negative Bus Bar:

- Soft connection copper bar.
- Stronger connection to ensure safer and more stable battery overcurrent.

#### 5 IP67 Rated Casing:

- Seamless enclosure, no water or dust ingress.

#### 6 250A Big Current (BMS):

- Strong capability for climbing and acceleration.

#### 7 Strong Compatibility:

- It can be used for E-Z-GO, Yamaha, Club Car, and other popular golf cart brands.

#### 8 High Insulation Performance:

- It contains insulation tube sleeves for cables and an epoxy board for the battery module to ensure the safety of the battery.

#### 9 Bluetooth Function:

- 5.0 Bluetooth ensures longer distance monitoring.