



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)
Impedence:	≤30mΩ

Current	
Battery Pack Factory SOC:	50%
Battery SOC Operating Range:	0-100%
BMS Consumption:	Self-consumption current in sleep mode: <600uA 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

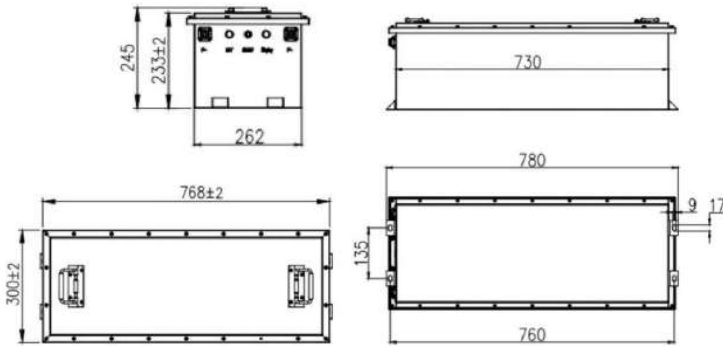
Temperature		
Charge method	Charge	0~55°C
	Discharge	-20~60°C
Storage environment	Temperature	10~45°C
	Humidity	≤ 75%RH



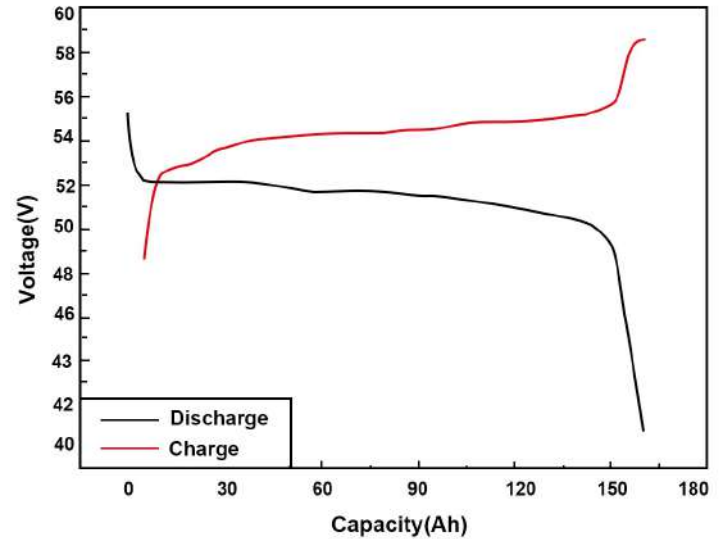
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Dimensional

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.