



Series	R-Series LFP	Warranty	See Warranty Terms
Volts	48	Design	Golf / Light EV
Terminal Type	M8		
Included Hardware	M8 stainless bolts & washers		

### Charge

Charge Voltage Range	56.0 - 58.4V	
Recommended End of Discharge Voltage	48.0 V	
End of Discharge Protection Voltage	40.0 V	
Recommended Charge Voltage	57.6 V	
Recommended Charge Current		
0~10°C (32-50°F)	0.2C	21A
10~35°C (50-95°F)	0.5C	52A
35~50°C (95-122°F)	0.2C	21A

### Charge Mode:

- Charge at recommend voltage & current by temperature until charge current drops to  $\leq 0.05C$  (CC,CV)
- DO NOT USE TEMPERATURE COMPENSATION
- No BTS (Battery Temperature Sensor)

Max Continuous Charge Current	100 A
Max Continuous Discharge Current	200 A
Surge Current Limit	900 A (300ms)
Charge Temperature Range	0°C~55°C (32~131°F)
Discharge Temperature Range	-20°~60°C (-4~140°F)
Storage Temperature Range	-5°~45°C (23~113°F)

### Capacity

Nominal Capacity	105 AH
Total Energy	5.38 kWh
Nominal Voltage	51.2 V

### Safety

- Prismatic LiFePO4 cells (UL1642) (UL2580)
- IEC62133 (cell), IEC62619(cell), UN38.3 (cell/pack)
- ROHS (cell), CE system certification, IP65 Rating

### Design

- Standard-size (BCI) ABS container for easy VRLA replacement
- Fast charge/discharge performance
- Maintenance-free operation
- Bluetooth Connectivity & dedicated IOS & Android App

### Battery Management System (BMS)

- Integrated hardware BMS inside
- Independent charge & discharge protection
- 48V surge current limits - 300A (30 sec), 500A (3 sec)
- Short-Circuit Protection, Over-Voltage Protection, Low-Voltage Protection, Over-Current Protection, Low-Temperature Protection, Over-Temperature Protection
- Included dash mount state-of-charge & voltage indicator & cabling

### 48V LFP Profile

#### Specifications

 SAI GLOBAL ISO 9001 Quality	Weight	45 kg	99 lbs
	Length	421 mm	16.57"
	Width	324 mm	12.75"
	Height	250 mm	9.84"
	Height Incl. Term.	265 mm	10.43"

Product measurements & weights are calculated based on sample data. Individual specifications are subject to vary due to the manufacturing process & battery components.

Container	Metal
Handles	Integrated Top Mount
Internal BMS Model	16S200A
Expected Cycle Life	>6000 @ 80% DOD, >3000 @ 100% DOD
Series Connection	1 UNIT MAX
Parallel Connection	4 UNITS MAX

### Detailed Illustration

