



Series	R-Series LFP	Warranty	See Warranty Terms
Volts	48	BCI	
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	40.4 cm	15.9"
Width	32.4 cm	12.75"
Height Inc. Term.	25.0 cm	9.84"

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

Container (Outer)	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

