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|-------------------|------------------------------|----------|--------------------|
| Series | R-Series LFP | Warranty | See Warranty Terms |
| Volts | 36 | Design | 4D |
| Terminal Type | M8 | | |
| Included Hardware | M8 stainless bolts & washers | | |

Charge

| | | |
|--------------------------------------|--------------|-----|
| Charge Voltage Range | 42.0 - 43.8V | |
| Recommended End of Discharge Voltage | 36.0 V | |
| End of Discharge Protection Voltage | 30.0 V | |
| Recommended Charge Voltage | 43.2 V | |
| Recommended Charge Current | | |
| 0~10°C (32-50°F) | 0.2C | 20A |
| 10~35°C (50-95°F) | 0.5C | 50A |
| 35~50°C (95-122°F) | 0.2C | 20A |

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 | 50 A |
| Max Continuous Discharge Current | 100 A |
| Surge Current Limit | 700 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 | 100 AH |
| Total Energy | 3.84 kWh |
| Nominal Voltage | 38.4 V |

Safety

- Cylindrical LiFePO4 cells (UL1642)
- 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
- Short-Circuit Protection, Over-Voltage Protection, Low-Voltage Protection, Over-Current Protection, Low-Temperature Protection, Over-Temperature Protection

36V LFP Profile

Specifications

| | | | |
|---------------------------------------|--------------------|--------|----------|
| SAI GLOBAL ISO 9001 Quality | Weight | 31 kg | 68.3 lbs |
| | Length | 521 mm | 20.5" |
| | Width | 238 mm | 9.37" |
| | Height | 218 mm | 8.58" |
| | Height Incl. Term. | 221 mm | 8.7" |

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

| | |
|---------------------|-----------------------------------|
| Container | ABS |
| Cover | ABS |
| Handles | Rope / Plastic Handle |
| Internal BMS Model | 12S100A |
| Expected Cycle Life | >6000 @ 80% DOD, >3000 @ 100% DOD |
| Series Connection | 1 UNITS MAX |
| Parallel Connection | 6 UNITS MAX |

Detailed Illustration

