







| Series | R-Series LFP | Warranty | See Warranty | Terms | |
|--------------------------------------|--------------|------------------------------|--------------|-------|--|
| Volts | 12 | Design | Grp 24 | | |
| Terminal Type | | M8 | | | |
| Included Hardware | | M8 stainless bolts & washers | | | |
| Charge | | | | | |
| Charge Voltage Range | | | 14.0 - 14.6V | | |
| Recommended End of Discharge Voltage | | | 12.0 V | | |
| End of Discharge Protection Voltage | | | 10.0 V | | |
| Recommended Charge Voltage | | | 14.4 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 | 1.28 kWh |
| Nominal Voltage | 12.8 V |

Safety

- Cylindrical LiFePO4 cells [ITR26-70/40E 4Ah, 26700] (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

12V LFP Profile

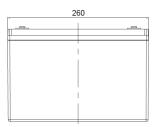
| Specifications | | | | |
|--------------------|---------|----------|--|--|
| Weight | 11.5 kg | 25.4 lbs | | |
| Length | 260 mm | 10.24" | | |
| Width | 170 mm | 6.69" | | |
| Height | 208 mm | 8.19" | | |
| Height Incl. Term. | 211 mm | 8.3" | | |

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 | Integrated Top Mount | |
| Internal BMS Model | 4S100A | |
| Expected Cycle Life | >6000 @ 80% DOD, >3000 @ 100% DOD | |
| Series Connection | 4 UNITS MAX (48V) | |
| Parallel Connection | 4 UNITS MAX (48V) or 6 UNITS MAX (12V) | |
| Connectivity | Up to 4S4P (in 48V configuration) or 1S6P (in 12V configuration) | |

Detailed Illustration

211 208









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