



|                   |                              |          |                    |
|-------------------|------------------------------|----------|--------------------|
| Series            | R-Series LFP                 | Warranty | See Warranty Terms |
| Volts             | 12                           | Design   | Grp 31             |
| 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         | 40A  |  |
| 10~35°C (50-95°F)                    | 0.5C         | 100A |  |
| 35~50°C (95-122°F)                   | 0.2C         | 40A  |  |

### 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    | 67 A                 |
| Max Continuous Discharge Current | 135 A                |
| Surge Current Limit              | 800 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 | 135 AH   |
| Total Energy     | 1.73 kWh |
| Nominal Voltage  | 12.8 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

### 12V LFP PROFILE

| Specifications     |        |        |
|--------------------|--------|--------|
| Weight             | 15 kg  | 33 lbs |
| Length             | 330 mm | 13"    |
| Width              | 173 mm | 6.81"  |
| Height             | 216 mm | 8.5"   |
| Height Incl. Term. | 219 mm | 8.62"  |

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  | 4S150A   |
| 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

