



|                   |                              |          |                    |
|-------------------|------------------------------|----------|--------------------|
| Series            | R-Series LFP                 | Warranty | See Warranty Terms |
| Volts             | 24                           | BCI      | G49                |
| Terminal Type     | M8                           |          |                    |
| Included Hardware | M8 stainless bolts & washers |          |                    |

#### Charge

|                                      |              |     |
|--------------------------------------|--------------|-----|
| Charge Voltage Range                 | 28.0 - 29.2V |     |
| Recommended End of Discharge Voltage | 24.0 V       |     |
| End of Discharge Protection Voltage  | 20.0 V       |     |
| Recommended Charge Voltage           | 28.8 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     | 2.56 kWh |
| Nominal Voltage  | 25.6 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

#### 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

#### 24V LFP Profile

| Specifications                                                                     |                   |         |          |
|------------------------------------------------------------------------------------|-------------------|---------|----------|
|  | Weight            | 22 kg   | 48.5 lbs |
|                                                                                    | Length            | 52.1 cm | 20.5"    |
|                                                                                    | Width             | 26.7 cm | 10.51"   |
|                                                                                    | Height Inc. Term. | 22.3 cm | 8.78"    |

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             | Molded                                                           |
| Internal BMS Model  | 8S150A                                                           |
| Expected Cycle Life | >6000 @ 80% DOD, >3000 @ 100% DOD                                |
| Series Connection   | 2 UNITS MAX (48V)                                                |
| Parallel Connection | 4 UNITS MAX (48V) or 6 UNITS MAX (24V)                           |
| Connectivity        | Up to 254P (in 48V configuration) or 156P (in 24V configuration) |

#### Detailed Illustration

