

# Lithium Battery 48v 3400wh

## Specification sheet

Version 1.1

### General

|                               |                    |
|-------------------------------|--------------------|
| EAN / Article Number          | 8721082427227      |
| Nominal energy capacity       | 3400 Wh            |
| Nominal capacity              | 66,5 Ah            |
| Useable capacity              | 65 Ah              |
| Capacity @25A                 | 155 min            |
| Nominal voltage               | 51,2 V             |
| Charging voltage              | 56,8 V             |
| Discharging voltage           | 43,2 V             |
| Continuous discharge rate     | 100 A              |
| Max quick charge              | 60 A               |
| Max peak discharge rate (2s)  | 200 A              |
| Max peak discharge rate (10s) | 150 A              |
| Weight                        | 33 kg              |
| Size (LxWxH)                  | 397 x 253 x 227 mm |
| Size (excluding feet)         | 397 x 253 x 212 mm |
| Bluetooth                     | Yes, iOS / Android |
| Case material                 | 3.5 mm Aluminium   |

### Use information

|  |              |
|--|--------------|
| Ambient temperature discharging        | -18 to 55 °C |
| Ambient temperature charging           | 2 to 45 °C   |
| Ambient temperature storage            | -25 to 55 °C |
| Typical storage time at 50% SoC        | 40 weeks     |
| Max connections                        | Up to 1S8P   |
| Protection class (exluding salt water) | IP67         |

### Lifetime data

|                              |              |
|------------------------------|--------------|
| Cycle lifetime *             | 4000 cycles  |
| Average annual capacity loss | ≈2% at 25 °C |
| Ideal storage temperature    | -25 to 55 °C |

\* with 80% discharge depth at 25°C to capacity loss of 20% at 0.5C

### Battery composition

|                          |                     |
|--------------------------|---------------------|
| Cell type                | Cylindrical         |
| Chemistry                | LiFePO <sub>4</sub> |
| Capacity per cell        | 6,05 Ah             |
| Nominal voltage per cell | 3.2 V               |
| Cell configuration       | 16s11p              |

### Battery management & Safety

|   |   |
|---|---|
| On-off switch                             | Yes   |
| Terminals                                 | Flexconnect   |
| Cell balancing, passive                   | Yes   |
| High current & short circuit protection   | Yes, up to 1500 A   |
| Deep discharge protection                 | Yes   |
| Protection against polarity reversal      | Yes   |
| Individual cell string voltage monitoring | Yes   |
| Safety vent for each cell                 | Yes   |
| Cell temperature monitoring               | Yes   |
| Temp. monitoring battery electronics      | Yes   |
| Shipping classification                   | UN3480<br>CLASS 9   |
| Certifications/compliance battery         | CE<br>UN38.3<br>RoHS  |
| Certifications/compliance battery cells   | UL<br>CE<br>IEC62133<br>IEC62619<br>EC61960<br>BIS<br>PSE<br>RoHS<br>UN38.3 |

