

# Low-Voltage Battery System



## TSYS-LD117

11.7 kWh



### High Performance

- 11.7 ~ 187.2 kWh wide capacity range
- Max.230A/230A charge / discharge current①
- Cycle life > 6000 cycles



### Assured Reliability

- IP40 ingress protection
- LFP battery cell & high-performance processors
- Aerosol fire suppression for precise protection



### Smart Management

- Remote fault diagnosis, upgrade and maintenance
- Wide temperature tolerance
- User-friendly LCD touchscreen for intuitive and easy interaction



### Flexible Adaptability

- Expandable to 16 units in parallel
- CTP (Cell-to-Pack) design maximizes space and energy density for superior performance

**TSYS-LD117**

| GENERAL INFORMATION                          |  |
|--|--|
| Battery model                                | TB-LD117                                       |
| Battery type                                 | LFP  |
| Scalability                                  | Max. 16 pcs in parallel                        |
| Nominal voltage                              | 51.2 Vdc                                       |
| Operating voltage range                      | 42.4 ~ 57.6 Vdc                                |
| Nominal energy                               | 11.7 kWh                                       |
| Usable energy (95% DOD) <sup>②</sup>         | 11.1 kWh                                       |
| Rated power                                  | 5.8 kW   |
| Max. power                                   | 12.8 kW  |
| Peak output power                            | 23.5 kW, 10s                                   |
| Recommend charge / discharge current         | 115 A  |
| Max. charge / discharge current <sup>①</sup> | 230 A / 230 A                                  |
| Depth of discharge                           | 95%  |
| Cycle life (95% DOD) <sup>③</sup>            | > 6000 cycles                                  |
| Dimensions (W x H x D)                       | 355 x 726 x 263 mm                             |
| Net weight                                   | 88 kg  |
| Warranty                                     | 5 Years  |
| ENVIRONMENTAL REQUIREMENTS                   |  |
| Charge temperature                           | 0 ~ 55°C                                       |
| Discharge temperature                        | -20 ~ 55°C                                     |
| Cooling concept                              | Natural cooling                                |
| Storage temperature                          | -20 ~ 30°C (12 months)<br>30 ~ 60°C (6 months) |
| Relative humidity                            | 5 ~ 95% RH (non-condensing)                    |
| Max. operating altitude                      | 3000 m   |
| Installation type                            | Wall mounting / floor mounting                 |
| Ingress protection                           | IP40   |
| Environment                                  | Indoor   |
| COMMUNICATION INTERFACES                     |  |
| Display                                      | Indicators / LCD                               |
| Communication interfaces                     | CAN2.0 / RS485                                 |
| STANDARD                                     |  |
| Hazardous materials classification           | Class 9  |
| Transport testing requirement                | UN38.3   |
| Protection class                             | Class I  |
| Certifications                               | IEC 62619, CE                                  |

① Current is affected by the number of batteries connected in parallel as well as temperature and SOC.

At the temperature of 25°C, the maximum discharge current can reach 250A and last for 30 minutes.

② Test conditions: 95% DOD, 0.5C charge & discharge @+25°C

③ Test conditions: 25 ± 2°C, 0.5C charge & discharge, 70%EOL