Low-voltage Battery System



TSYS-LD51

5.12 kWh

High Performance

- 135A maximum charging current ensures superior power and peak performance
- Cycle life > 6000 times for long-lasting use

Assured Reliability

- Premium LiFePO4 cells and high-efficiency processors
- IP40-rated for reliable and safe operation

Smart Management

- User-friendly LCD touchscreen for intuitive and easy interaction
- Remote fault diagnostics and updates

Flexible Adaptability

- Supports floor, wall, or stack mounting
- Expandable to 16 units in parallel
- CTP (Cell-to-Pack) design maximizes space and energy density for superior performance

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V1.0. Information may be subject to modify without notice. 650.00089.00

Product model	TB-LD51
Battery type	LFP
Battery component	1P16S
Nominal voltage	51.2 V
Operating voltage range	42.4 ~ 57.6 V
Rated capacity	100 Ah
Nominal energy	5.12 kWh
Usable energy (90%DOD)①	4.6 kWh
Recommed current	50 A
Max. current	Charge: 100 A, Discharge: 135 A
Max. discharge power	6900 W (25℃, 51.2 V)
Peak current	200A 10s, 25℃
Cycel life②	>6000 Cycles
Communication interfaces	CAN / RS485
HMI	3.5 inch LCD touchscreen + Status Light + SOC power indicators
Operation temperature	Charge: 0 ~ 55℃, Diacharge: -20 ~ 55℃
Storage temperature	-20 ~ 30°C (12 months), 30 ~ 60°C (6 months)
Single string quantity	16 pcs
Dimension (W x H x D)	326 × 626 × 164 mm
Weight	41.5 ±1 kg
Installation type	Wall / Floor / Stack mounting
Enclosure protection	IP40
Cooling concept	Natural cooling
Humidity	20 ~ 85% RH (non-condensing)
Altitude	<3000 m
Certification	IEC 62477, IEC 62619, IEC 60730, IEC 63056, IEC 61000, EMC, UN38.3
Warranty	5 years

① DC Usable Energy, test conditions: 90% DOD, 0.5C charge & discharge at 25°C. System usable energy may vary due to system configuration parameters

② 25°C ± 2°C, 0.2C / 0.2C, 90% DOD, 70% EOL.