

Low-voltage Battery System



TSYS-LD51

5.1 kWh



High Performance

- 5.1~81.9 kWh wide capacity range
- Max.100A/135 A charge /discharge current
- Cycle life> 6000 cycles



Assured Reliability

- IP40 ingress protection
- LFP battery cell & high-performance processors



Smart Management

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



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

TSYS-LD51

GENERAL INFORMATION	
Battery model	TB-LD51
Battery type	LFP
Scalability	Max. 16 pcs pack in parallel
Rated voltage	51.2 Vdc
Operating voltage range	42.4 ~ 57.6Vdc
Rated energy	5.1 kWh
Usable energy (95% DOD) ^①	4.8 kWh
Rated power	2.5 kW
Max. power	6.9 kW
Peak output power	10.2 kW, 10s
Recommand charge / discharge current	50 A
Max. charge / discharge current ^②	100 A / 135 A
Depth of discharge	95%
Cycle life (95% DOD) ^③	> 6000 Cycles
Dimensions (W x H x D)	370 x 635 x 183 mm
Net weight	42.8 ± 1 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) +30 ~ +60°C (6 months)
Relative humidity	5 ~ 95% RH (non-condensing)
Max. operating altitude	3000 m
Installation type	Wall / Floor / Stack 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 62477, IEC 62619, IEC 60730, IEC 63056, IEC 61000, EMC

① Test conditions: 95% DOD, 0.5C charge & discharge @+25°C

② Current is affected by the number of batteries connected in parallel as well as temperature and SOC

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