Low-voltage Battery System



T-BAT-SYS-LV D53

High Performance

- 5.3 ~ 85.1 kWh wide capacity range
- Max. 100 A / 100 A charge / discharge current①
- Cycle life > 6000 cycles

Assured Reliability

- IP65 ingress protection
- LFP battery cell & high-performance processors

Smart Management

- Remote fault diagnosis, upgrade and maintenance
- Wide temperature tolerance

Flexible Adaptability

- Expandable to 16 units in parallel
- Quick and easy installation

T-BAT-SYS-LV D53

GENERAL INFORMATION	
Battery model	TP-LD53
Battery type	LFP
Scalability	Max. 16 pcs in parallel
Rated voltage	51.2 Vdc
Operating voltage range	45 ~ 58 Vdc
Rated energy	5.3 kWh
Usable energy (95% DOD)②	5.03 kWh
Rated power	2.6 kW
Max. power	6.1 kW
Peak output power	7.7 kW, 10 s
Recommend charge / discharge current	50 A
Max. charge / discharge current①	100 A / 100 A
Depth of discharge	95%
Cycle life (95% DOD)③	>6000 cycles
Dimensions (WxHxD)	430 × 645 × 150 mm
Net weight	48.5 kg
Warranty	10 Years
ENVIRONMENTAL REQUIREMENTS	
Charge temperature	0 ~ +53°C
Discharge temperature	-20 ~ +53°C
Cooling concept	Natural cooling
Storage Temperature	-20 ~ +30°C (12 months) +30 ~ +50°C (6 months)
Relative humidity	4 ~ 100% RH (condensing)
Max. operating altitude	3000 m
Installation type	Wall mounting / Floor mounting
Ingress protection	IP65
Environment	Outdoor / indoor
COMMUNICATION INTERFACES	
Display	Indicators
Communication interfaces	CAN2.0 / RS485
STANDARD	
Hazardous materials classification	Class 9
Transport testing requirement	UN38.3
Protection class	Class I
Certifications	IEC62619, IEC62040, 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 120A.
② Test conditions: 95% DOD, 0.5C charge & discharge @+25°C
③ Test conditions: 25 ± 2°C, 0.5C charge & discharge, 70%EOL