Low-voltage Battery System



T-BAT-SYS-LV D53

High Performance

- Peak discharge current: 200A for 10s
- Cycle life > 5000 times

Assured Reliability

- LiFePO4 battery cell & high-performance processors
- IP65 protection degree

Smart Management

- Remote fault diagnosis, upgrade and maintenance
- AI-driven intelligent algorithms for high SOC and accuracy

Flexible Adaptability

- Floor or wall mounting optional
- Modular design, expandable to 16 units in parallel

*V1.0.1 Information may be subject to modify without notice. 650.00057.00

T-BAT-SYS-LV D53

SYSTEM PARAMETERS								
TYPE / MODEL	T-BAT LD53	T-BAT LD106	T-BAT LD159	T-BAT LD212	T-BAT LD265	T-BAT LD318	T-BAT LD371	T-BAT LD424
Number of Modules	1	2	3	4	5	6	7	8
Nominal capacity	5.3 kWh	10.6 kWh	15.9 kWh	21.2 kWh	26.6 kWh	31.9 kWh	37.2 kWh	42.5 kWh
Usable capacity (95% DOD) ①	5.03 kWh	10.06 kWh	15.09 kWh	20.12 kWh	25.15 kWh	30.18 kWh	35.21 kWh	40.24 kWh
Max. output current ②	100 A	120 A						
Peak discharge current	200 A, 10s							

SYSTEM PARAMETERS								
TYPE / MODEL	T-BAT LD477	T-BAT LD530	T-BAT LD583	T-BAT LD636	T-BAT LD689	T-BAT LD742	T-BAT LD795	T-BAT LD848
Number of Modules	9	10	11	12	13	14	15	16
Nominal capacity	47.9 kWh	53.2 kWh	58.5 kWh	63.8 kWh	69.2 kWh	74.5 kWh	79.8 kWh	85.1 kWh
Usable capacity (95% DOD)①	45.27 kWh	50.3 kWh	55.33 kWh	60.36 kWh	65.39 kWh	70.42 kWh	75.45 kWh	80.48 kWh
Max. outut current ②	120 A							
Peak discharge current	200 A, 10s							
Max charge power：5.12kW	Max discharge power：6.14kW							

GENERAL INFORMATION	
Weight	48.5 kg
Dimension (L x W x H)	645 x 150 x 430 mm
Nominal voltage	51.2 V
Operating voltage range	45 ~ 58 V
Battery type	Lithium iron phosphate
Communication port	CAN / RS485
Operation temperature	0 ~ 53°C (charge) – 20 ~ 53°C (discharge)
Storage temperature	30 ~ 50°C (6 months) – 20 ~ 30°C (12 months)
Ingress protection	IP65
Colling concept	Natural cooling
Relative humidity	5 ~ 95% RH (Non-condensing)
Altitude	< 3000 m
Warranty④	10 years
Cycle life③ [95% DOD]	> 5000
Certification	IEC62619, IEC62040, CE, UN38.3
Efficiency of Battery: 95%	Efficiency of Battery: 95% (0.2C) System Management: BMS

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 25°C ± 2°C, 0.5C / 0.5C, 80% EOL > 5000 (10 years)
④ The warranty is due whichever reached first of warranty period or energy throughput