

High-voltage Battery System



T-BAT-SYS-HV-S2.5

5.12kWh ~ 33.28kWh



Smart Management

- Remote fault diagnosis, upgrade and maintenance
- Unique battery heating tech for low-temperature operation
- Optional parallel connection using a two-in-one cable for easy capacity expansion and extend battery lifespan



Assured Reliability

- LiFePO4 battery cell & high-performance processors
- IP65 protection degree
- Soft start to protect from a sudden surge



High Performance







- 5.1-33.2 kWh wide capacity range
- Max. 50A charging/discharging current
- Cycle life > 6000 times








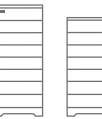
Flexible Adaptability

- Extendable capacity for lifetime use
- Stackable modules, plug and play design

T-BAT HS5.0
T-BAT HS7.5
T-BAT HS10.0
T-BAT HS12.5
T-BAT HS15.0
T-BAT HS17.5

Number of modules	 2 Modules	 3 Modules	 4 Modules	 5 Modules	 6 Modules	 7 Modules
SYSTEM DATA						
Nominal energy	5.12 kWh	7.68 kWh	10.24 kWh	12.80 kWh	15.36 kWh	17.92 kWh
Usable energy (90%DOD) ^①	4.6 kWh	6.9 kWh	9.2 kWh	11.5 kWh	13.8 kWh	16.1 kWh
Nominal voltage	102.4 V	153.6 V	204.8 V	256.0 V	307.2 V	358.4 V
Operating voltage range	90 ~ 116 V	135 ~ 174 V	180 ~ 232 V	225 ~ 290 V	270 ~ 349 V	315 ~ 406 V
Recommend charging / discharging current ^②	30 A					
Max. charging / discharging current ^{②③}	50 A					
Standard power ^②	3.1 kW	4.6 kW	6.1 kW	7.7 kW	9.2 kW	10.8 kW
Max. power ^②	5.12 kW	7.68 kW	10.24 kW	12.80 kW	15.36 kW	17.92 kW
Depth of discharge	90%					
Communication interface	RS485, CAN					
Dimensions (L x W x H)	510 x 365 x 522 mm	510 x 365 x 659.5 mm	510 x 365 x 797 mm	510 x 365 x 934.5 mm	510 x 365 x 1072 mm	510 x 365 x 1209.5 mm

T-BAT HS20.0
T-BAT HS22.5
T-BAT HS25.0
T-BAT HS27.5
T-BAT HS30.0
T-BAT HS32.5

Number of modules	 8 Modules	 9 Modules	 10 Modules	 11 Modules	 12 Modules	 13 Modules
SYSTEM DATA						
Nominal energy	20.48 kWh	23.04 kWh	25.60 kWh	28.16 kWh	30.72 kWh	33.28 kWh
Usable energy (90%DOD) ^①	18.4 kWh	20.7 kWh	23.0 kWh	25.3 kWh	27.6 kWh	29.9 kWh
Nominal voltage	409.6 V	460.8 V	512.0 V	563.2 V	614.4 V	665.6 V
Operating voltage range	360 ~ 465 V	405 ~ 522 V	450 ~ 580 V	495 ~ 636 V	540 ~ 695 V	585 ~ 750 V
Recommend charging / discharging current ^②	30 A					
Max. charging / discharging current ^{②③}	50 A					
Standard power ^②	12.3 kW	13.8 kW	15.4 kW	16.9 kW	18.4 kW	20.0 kW
Max. power ^②	20.48 kW	23.04 kW	25.60 kW	28.16 kW	30.72 kW	33.28 kW
Depth of discharge	90%					
Communication interface	RS485, CAN					
Dimensions (L x W x H)	510 x 365 x 1347 mm	510 x 365 x 1484.5 mm	510 x 365 x 934.5 mm + 510 x 365 x 934.5 mm	510 x 365 x 1072 mm + 510 x 365 x 934.5 mm	510 x 365 x 1072 mm + 510 x 365 x 1072 mm	510 x 365 x 1209.5 mm + 510 x 365 x 1072 mm

BMS

Model	TBMS-MCS0800
Dimensions (L x W x H)	510 x 365 x 157 mm
Weight	13 kg

BATTERY MODEL

Battery model	TP-HS25
Battery type	Li-ion (LFP)
Battery capacity	2.5 kWh
Dimensions (L x W x H)	510 x 365 x 152 mm
Weight	34 kg
Installation type	Stackable level package

SERIES BOX

Dimensions (L x W x H)	510 x 365 x 157 mm
Weight	10 kg

GENERAL SPECIFICATION

Installation	Floor stand
Charge / discharge temperature range (without heating)	0 ~ 53°C (charge) -20 ~ 53°C (discharge)
Charge / discharge temperature range (with heating)	-30 ~ 53°C (charge / discharge)
Max. operating altitude	< 3000 m
Environment	Outdoor / indoor (*please refer to the user manual for installation condition)
Protection degree	IP65
Relative humidity	4 ~ 100% RH (Condensing)

STANDARD AND CERTIFICATION

Certificates	IEC 62619, IEC 60730, IEC 62040, CE, UN38.3
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① Test conditions: 90% DOD, 0.2C charger & discharger @+25 °C

② Recommend / max. charging / discharging current* / nominal / max. power*: recommend / max. charging / discharging current and nominal / max. power derating will occur related to temperature and SOC

③ Max. charge / discharge current may be variant with different inverter models