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

- LFP battery cell & high-performance processors
- IP65 Ingress protection
- 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 cycles

Flexible Adaptability

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

SOLAX POWER | BVB 09 PARTNER

	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 mudules	 2	 3	 4	 5	 6	 7
GENERAL INFORMATION						
Rated 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
Rated voltage	102.4 V	153.6 V	204.8 V	256.0 V	307.2 V	358.4 V
Operation voltage range	90 ~ 116 V	135 ~ 174 V	180 ~ 232 V	225 ~ 290 V	270 ~ 349 V	315 ~ 406 V
Recommend charge / discharge current②	30 A					
Max. charge / discharge current②③	50 A					
Rated power②	3.1 kW	4.6 kW	6.1 kW	7.7 kW	9.2 kW	10.8 kW
Max. power②	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 (W × H × D)	510 × 522 × 365 mm	510 × 659.5 ×365 mm	510 × 797 × 365 mm	510 × 934.5 × 365 mm	510 × 1072 × 365 mm	510 × 1209.5 × 365 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 mudules	 8	 9	 10	 11	 12	 13
GENERAL INFORMATION						
Rated 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
Rated voltage	409.6 V	460.8 V	512.0 V	563.2 V	614.4 V	665.6 V
Operation voltage range	360 ~ 465 V	405 ~ 522 V	450 ~ 580 V	495 ~ 636 V	540 ~ 695 V	585 ~ 750 V
Recommend charging / discharging current③	30 A					
Max. charge / discharge current②③	50 A					
Rated power③	12.3 kW	13.8 kW	15.4 kW	16.9 kW	18.4 kW	20.0 kW
Max. power③	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 (W × H × D)	510 × 1347 × 365 mm	510 × 1484.5 × 365 mm	510 × 934.5 × 365 mm + 510 × 934.5 × 365 mm	510 × 1072 × 365 mm + 510 × 934.5 × 365 mm	510 × 1072 × 365 mm + 510 × 1072 × 365 mm	510 × 1209.5 × 365 mm + 510 × 1072 × 365 mm

BMS	
Model	TBMS-MCS0800
Dimensions (W × H × D)	510 × 157 × 365 mm
Net weight	13 kg
BATTERY MODEL	
Battery model	TP-HS25
Battery type	LFP
Battery module	2.5 kWh
Dimensions (W × H × D)	510 × 152 × 365 mm
Net weight	34 kg
Installation type	Stackable
SERIES BOX	
Dimensions (W × H × D)	510 × 157 × 365 mm
Net weight	10 kg
ENVIRONMENTAL REQUIREMENTS	
Installation	Floor mounting
Charge temperature	-30 ~ +53°C (with heating function) 0 ~ +53°C (without heating function)
Discharge temperature	-30 ~ +53°C (with heating function) -20 ~ +53°C (without heating function)
Max. operation altitude	3000 m
Environment	Outdoor / indoor (*please refer to the user manual for installation condition)
Ingress protection	IP65
Relative humidity	4 ~ 100% RH (condensing)
STANDARD	
Certifications	IEC 62619, IEC 60730, IEC 62040, CE, UN38.3

① Test conditions: 90% DOD, 0.2C charge & discharge @25°C ② Max. charge / discharge current may be variant with different inverter models
③ Recommend / Max. charging / discharging current* / rated / Max. power*: recommend / Max. charging / discharging current and nominal / Max. power derating will occur related to temperature and SOC