

High-voltage Battery System



T-BAT-SYS-HV-S3.6

7.37kWh ~ 47.92kWh



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

- 7.3-47.9 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

T-BAT HS7.2
T-BAT HS10.8
T-BAT HS14.4
T-BAT HS18.0
T-BAT HS21.6
T-BAT HS25.2

Number of modules	 2	 3	 4	 5	 6	 7
GENERAL INFORMATION						
Rated energy	7.37 kWh	11.06 kWh	14.75 kWh	18.43 kWh	22.12 kWh	25.80 kWh
Usable energy (90% DOD) ^①	6.6 kWh	10.0 kWh	13.3 kWh	16.6 kWh	19.9 kWh	23.2 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 current ^②	35 A					
Max. charge / discharge current ^{②③}	50 A					
Rated power ^③	3.5 kW	5.3 kW	7.1 kW	8.9 kW	10.7 kW	12.5 kW
Max. power ^③	5.1 kW	7.6 kW	10.2 kW	12.8 kW	15.3 kW	17.9 kW
Depth of discharge	90%					
Communication interfaces	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 HS28.8
T-BAT HS32.4
T-BAT HS36.0
T-BAT HS39.6
T-BAT HS43.2
T-BAT HS46.8

Number of modules	 8	 9	 10	 11	 12	 13
GENERAL INFORMATION						
Rated energy	29.49 kWh	33.18 kWh	36.86 kWh	40.55 kWh	44.24 kWh	47.92 kWh
Usable energy (90% DOD) ^①	26.5 kWh	29.9 kWh	33.2 kWh	36.5 kWh	39.8 kWh	43.1 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 charge / discharge current ^②	35 A					
Max. charge / discharge current ^{②③}	50 A					
Rated power ^③	14.3 kW	16.1 kW	17.9 kW	19.7 kW	21.5 kW	23.3 kW
Max. power ^③	20.4 kW	23.0 kW	25.6 kW	28.1 kW	30.7 kW	33.2 kW
Depth of discharge	90%					
Communication interfaces	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 + 5510 × 1072 × 365 mm	510 × 1209.5 × 365 mm + 5510 × 1072 × 365 mm

BMS

Model	TBMS-MCS0800
Dimensions (W × H × D)	510 × 157 × 365 mm
Net weight	13 kg

BATTERY MODEL

Battery model	TP-HS36
Battery type	LFP
Battery module	3.6 kWh
Dimensions (W × H × D)	510 × 152 × 365 mm
Net weight	34 kg

SERIES BOX

Dimensions (W × H × D)	510 × 157 × 365 mm
Net weight	10 kg

ENVIRONMENTAL REQUIREMENT

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