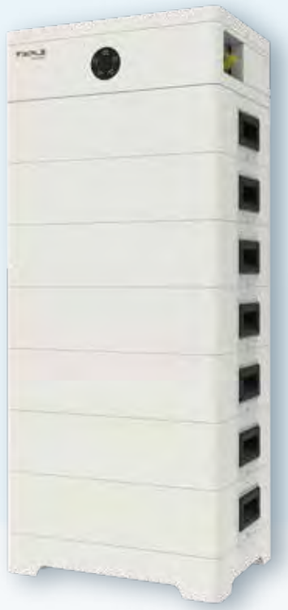
High-voltage Battery System



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

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

Flexible Adaptability

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

**V1.6. Information may be subject to modify without notice. 650.00032.00*

	T-BAT HS7.2	T-BAT HS10.8	T-BAT HS14.4	T-BAT HS18.0	T-BAT HS21.6	T-BAT HS25.2
Technical Specification	2 Modules	3 Modules	4 Modules	5 Modules	6 Modules	7 Modules
SYSTEM PARAMETERS						
Nominal 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
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 charge / discharge current③	35 A					
Max. charge / discharge current②③	50 A					
Nominal power③	3.5 kW	5.3 kW	7.1 kW	8.9 kW	10.7 kW	12.5 kW
Max. power③	5.1 kW	7.6 kW	10.2 kW	12.8 kW	15.3 kW	17.9 kW
Depth of discharge	90%					
Communication interface	RS485, CAN					
Dimensions (L × W × H)	510 × 365 × 522 mm	510 × 365 × 659.5 mm	510 × 365 × 797 mm	510 × 365 × 934.5 mm	510 × 365 × 1072 mm	510 × 365 × 1209.5 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
Technical Specificatio	8 Modules	9 Modules	10 Modules	11 Modules	12 Modules	13 Modules
SYSTEM PARAMETERS						
Nominal 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
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 charge / discharge current③	35 A					
Max. charge / discharge current②③	50 A					
Nominal power③	14.3 kW	16.1 kW	17.9 kW	19.7 kW	21.5 kW	23.3 kW
Max. power③	20.4 kW	23.0 kW	25.6 kW	28.1 kW	30.7 kW	33.2 kW
Depth of discharge	90%					
Communication interface	RS485, CAN					
Dimensions (L × W × H)	510 × 365 × 1347 mm	510 × 365 × 1484.5 mm	510 × 365 × 934.5 mm + 510 × 365 × 934.5 mm	510 × 365 × 1072 mm + 510 × 365 × 934.5 mm	510 × 365 × 1072 mm + 510 × 365 × 1072 mm	510 × 365 × 1209.5 mm + 510 × 365 × 1072 mm

BMS	
Model	TBMS-MCS0800
Dimensions (W × H × D)	510 × 365 × 157 mm
Weight	13 kg
BATTERY MODEL	
Battery model	TP-HS36
Battery type	Li-ion (LFP)
Battery module	3.6 kWh
Dimensions (L × W × H)	510 × 365 × 152 mm
Weight	34 kg
SERIES BOX	
Dimensions (L × W × H)	510 × 365 × 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	
Certification	IEC 62619, IEC 60730, IEC 62040, CE, UN38.3

① Test conditions: 90% DOD, 0.2C charger & discharger @+25°C ② Max. charge / discharge current may be variant with different inverter models
③ 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