

# 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

**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) <sup>①</sup>	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 current <sup>②</sup>	35 A					
Max. charge / discharge current <sup>②③</sup>	50 A					
Nominal power <sup>③</sup>	3.5 kW	5.3 kW	7.1 kW	8.9 kW	10.7 kW	12.5 kW
Max. power <sup>③</sup>	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 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 HS28.8**
**T-BAT HS32.4**
**T-BAT HS36.0**
**T-BAT HS39.6**
**T-BAT HS43.2**
**T-BAT HS46.8**

Technical Specification



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) <sup>①</sup>	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 current <sup>②</sup>	35 A					
Max. charge / discharge current <sup>②③</sup>	50 A					
Nominal power <sup>③</sup>	14.3 kW	16.1 kW	17.9 kW	19.7 kW	21.5 kW	23.3 kW
Max. power <sup>③</sup>	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 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 (W x H x D)	510 x 365 x 157 mm
Weight	13 kg

**BATTERY MODEL**

Battery model	TP-HS36
Battery type	Li-ion (LFP)
Battery module	3.6 kWh
Dimensions (L x W x H)	510 x 365 x 152 mm
Weight	34 kg

**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**

Certification	IEC 62619, IEC 60730, IEC 62040, CE, UN38.3
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① Test conditions: 90% DOD, 0.2C charger &amp; 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