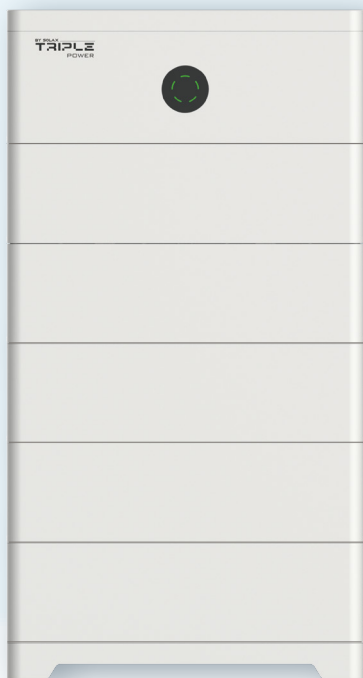


High-voltage Battery System



TSYS-HS51

10.2kWh ~ 66.5kWh



Smart Management

- Remote fault diagnosis, upgrade and maintenance
- Unique battery heating tech and wide temperature tolerance
- Optional parallel connection using a two-in-one cable for easy capacity expansion and extend battery lifespan
- Maximum 10% expansion of effective power over the entire life cycle to increase cycle life (Optimizer Version) ①
- 3-hour rapid equalization (Optimizer Version) ②



Assured Reliability

- IP66 ingress protection
- LFP battery cell & high-performance processors
- Aerosol fire suppression for precise protection



High Performance

- 10.2 - 66.5 kWh wide capacity range
- Max. 70A charging / discharging current
- Cycle life > 6000 cycles



Flexible Adaptability

- Compatible with TCBox-70, up to 3 towers of batteries③
- Compact and stackable for easy installation
- Supporting direct battery expansion
- Supporting mixed use of new and old batteries, supports rapid capacity expansion, plug and play, no energy loss (Optimizer Version)

①Lab conditions

②Lab data, quick equalization of 20% power difference in 3 hours

③coming soon

T-HS10.2 T-HS15.3 T-HS20.4 T-HS25.6 T-HS30.7 T-HS35.8

GENERAL INFORMATION						
Number of modules	2	3	4	5	6	7
Usable energy (100% DOD) ^①	10.2 kWh	15.3 kWh	20.4 kWh	25.6 kWh	30.7 kWh	35.8 kWh
Rated voltage	102.4 V	153.6 V	204.8 V	256.0 V	307.2 V	358.4 V
Operation voltage range	85 ~ 116 V	128 ~ 174 V	170 ~ 232 V	212 ~ 289 V	255 ~ 347 V	297 ~ 405 V
Rated operation current ^③	60 A					
Maximum operation current ^{②③}	70 A					
Rated power ^③	6.1 kW	9.2 kW	12.3 kW	15.4 kW	18.4 kW	21.5 kW
Max. power ^③	7.2 kW	10.8 kW	14.3 kW	17.9 kW	21.5 kW	25.1 kW
Depth of discharge	100%					
Communication interfaces	CAN + RS485					
Dimensions (W x H x D)	600 × 621 × 376 mm	600 × 789 × 376 mm	600 × 957 × 376 mm	600 × 1125 × 376 mm	600 × 1293 × 376 mm	600 × 1461 × 376 mm

T-HS40.9 T-HS46.0 T-HS51.2 T-HS56.3 T-HS61.4 T-HS66.5

GENERAL INFORMATION						
Number of modules	8	9	10	11	12	13
Usable energy (100% DOD) ^①	40.9 kWh	46.0 kWh	51.2 kWh	56.3 kWh	61.4 kWh	66.5 kWh
Rated voltage	409.6 V	460.8 V	512.0 V	563.2 V	614.4 V	665.6 V
Operation voltage range	340 ~ 463 V	382 ~ 520 V	424 ~ 578 V	467 ~ 636 V	509 ~ 694 V	552 ~ 750 V
Rated operation current ^③	60 A					
Maximum operation current ^{②③}	70 A					
Rated power ^③	24.6 kW	27.6 kW	30.7 kW	33.8 kW	36.9 kW	39.9 kW
Max. power ^③	28.7 kW	32.3 kW	35.8 kW	39.4 kW	43.0 kW	46.6 kW
Depth of discharge	100%					
Communication interfaces	CAN + RS485					
Dimensions (W x H x D)	600 × 1629 × 376 mm	600 × 957 × 376 mm + 600 × 1125 × 376 mm ^④	600 × 1125 × 376 mm + 600 × 1125 × 376 mm	600 × 1293 × 376 mm + 600 × 1125 × 376 mm	600 × 1293 × 376 mm + 600 × 1293 × 376 mm	600 × 1461 × 376 mm + 600 × 1293 × 376 mm

BMS

Model	TBMS-S51-8 / TBMS-S51-80
Dimensions (W x H x D)	600 × 225 × 376 mm
Net weight	18.4 kg

BATTERY MODEL

Model	TB-HS51 / TB-HS510
Battery type	LFP
Cycle life (100% DOD)	> 6000 cycles
Module capacity	5.1 kWh
Dimensions (W x H x D)	600 × 168 × 376 mm
Net weight	46 kg / 47.1 kg (with optimizer)
Installation type	Stackable

SERIES BOX

Dimensions (W x H x D)	600 × 225 × 376 mm
Net weight	14.6 kg

ENVIRONMENTAL REQUIREMENTS

Installation	Floor mounting
Charge temperature	-30 ~ +53°C (with heating function) -20 ~ +53°C (without heating function)
Discharge temperature	-30 ~ +53°C (with heating function) -20 ~ +53°C (without heating function)
Relative humidity	4 ~ 100% RH (non-condensing)
Max. operation altitude	3000 m
Environment	Outdoor / indoor
Ingress protection	IP66

STANDARD

Certifications	IEC62619, IEC62040, EN62477, VDE 2510
Transport testing requirement	UN38.3

① Test conditions: 100% DOD, 0.2C charge & discharge @ 25°C

② Max. charge / discharge current may be variant with different inverter models

③ Rated / maximum operation current and rated / maximum power derating will occur related to temperature or SOC

④ If the stack consists of 9 packs, the height will be near 2m, both height and ground load-bearing capacity need to be taken into account. Dimensions (W x H x D) are 600 × 1797 × 376 mm