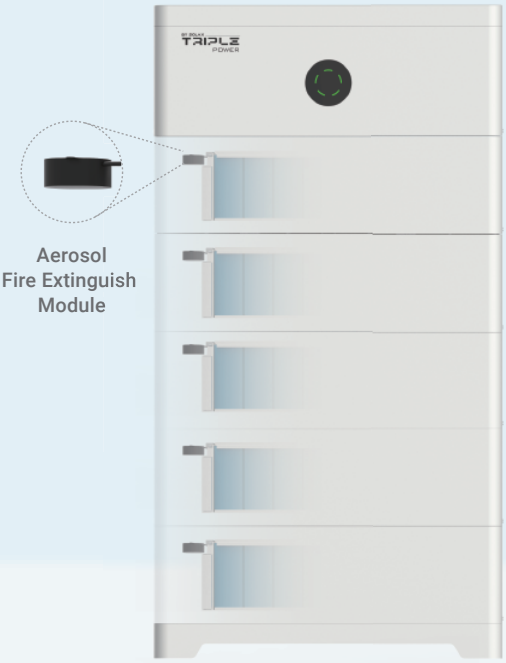
High-Voltage Battery System



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)

① Lab conditions
② Lab data, quick equalization of 20% power difference in 3 hours
③ Coming soon

SOLAX POWER | BVB 09 PARTNER

	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
Rated energy	10.2 kWh	15.3 kWh	20.4 kWh	25.6 kWh	30.7 kWh	35.8 kWh
Usable energy (90% DOD)①	9.1 kWh	13.7 kWh	18.3 kWh	23.0 kWh	27.6 kWh	32.2 kWh
Rated voltage	102.4 V	153.6 V	204.8 V	256.0 V	307.2 V	358.4 V
Operation voltage range	85 ~ 116 V	128 ~ 174 V	170 ~ 232 V	212 ~ 289 V	255 ~ 347 V	297 ~ 405 V
Rated operation current③	60 A					
Maximum operation current②③	70 A					
Rated power③	6.1 kW	9.2 kW	12.3 kW	15.4 kW	18.4 kW	21.5 kW
Max. power③	7.2 kW	10.8 kW	14.3 kW	17.9 kW	21.5 kW	25.1 kW
Depth of discharge	90%					
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
Rated energy	40.9 kWh	46.0 kWh	51.2 kWh	56.3 kWh	61.4 kWh	66.5 kWh
Usable energy (90% DOD)①	36.8 kWh	41.4 kWh	46.0 kWh	50.6 kWh	55.2 kWh	59.8 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 current③	60 A					
Maximum operation current②③	70 A					
Rated power③	24.6 kW	27.6 kW	30.7 kW	33.8 kW	36.9 kW	39.9 kW
Max. power③	28.7 kW	32.3 kW	35.8 kW	39.4 kW	43.0 kW	46.6 kW
Depth of discharge	90%					
Communication interfaces	CAN + RS485					
Dimensions (W x H x D)	600 × 1629 × 376 mm	600×957×376 mm +600×1125×376 mm	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-S51-8O
Dimensions (W × H × D)	600 × 225 × 376 mm
Net weight	18.5 kg
BATTERY MODEL	
Model	TB-HS51 / TB-HS51O
Battery type	LFP
Cycel life (90% 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 × H × D)	600 × 225 × 376 mm
Net weight	15 kg
ENVLRONMENTAL REQULREMENTS	
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 (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: 90% 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