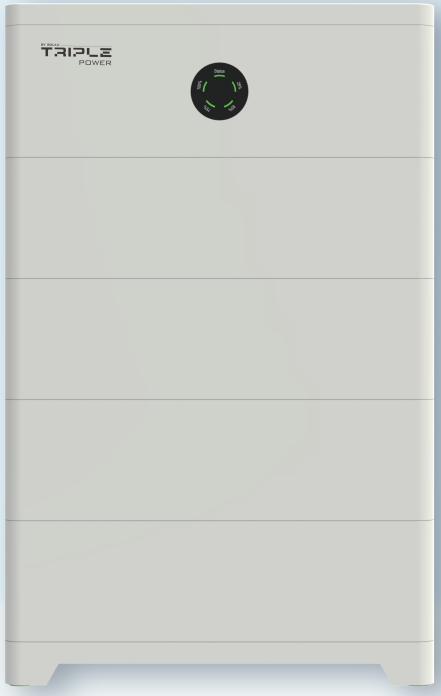
High-voltage Battery System



TSYS-HS51

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

Assured Reliability

- IP66 protection degree
- LiFePO4 battery cell & high-performance processors

High Performance

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

Flexible Adaptability

- Compatible with TCBox-70, up to 3 towers of batteries
- Compact and stackable for easy installation

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V1.4.1. Information may be subject to modify without notice. 650.00071.00

	T-HS10.2	T-HS15.3	T-HS20.4	T-HS25.6	T-HS30.7	T-HS35.8
SYSTEM SPECIFICATION						
Number of modules	2	3	4	5	6	7
Nominal capacity	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
Nominal voltage	102.4 V	153.6 V	204.8 V	256.0 V	307.2 V	358.4 V
Operating voltage range	85 ~ 116 V	128 ~ 174 V	170 ~ 232 V	212 ~ 289 V	255 ~ 347 V	297 ~ 405 V
Nominal operation current③	60 A					
Maximum operation current②③	70 A					
Nominal power③	6.1 kW	9.2 kW	12.3 kW	15.4 kW	18.4 kW	21.5 kW
Maximum 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					
Dimension (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
SYSTEM SPECIFICATION						
Number of modules	8	9	10	11	12	13
Nominal capacity	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
Nominal voltage	409.6 V	460.8 V	512.0 V	563.2 V	614.4 V	665.6 V
Operating voltage range	340 ~ 463 V	382 ~ 520 V	424 ~ 578 V	467 ~ 636 V	509 ~ 694 V	552 ~ 750 V
Nominal operation current③	60 A					
Maximum operation current②③	70 A					
Nominal power③	24.6 kW	27.6 kW	30.7 kW	33.8 kW	36.9 kW	39.9 kW
Maximum 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					
Dimension (W x H x D)	600 × 1629 × 376 mm	600×957×376mm +600×1125×376mm	600×1125×376mm +600×1125×376mm	600×1293×376mm +600×1125×376mm	600×1293×376mm +600×1293×376mm	600×1461×376mm +600×1293×376mm

BMS	
Model	TBMS-S51-8
Dimensions (W × H × D)	600 × 225 × 376 mm
Weight	18.5 kg
BATTERY MODEL	
Model	TB-HS51
Battery type	Li-ion (LFP)
Cycel life (90% DOD)	6000
Module capacity	5.1 kWh
Dimension (W x H x D)	600 × 168 × 376 mm
Weight	46 kg
Installation type	Stackable Level Package
SERIES BOX	
Dimensions (L × W × H)	600 × 225 × 376 mm
Weight	15 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)
Relative humidity	4 ~ 100% RH (Condensing)
Altitude	< 3000 m
Environment	Outdoor / Indoor
Protection degree	IP66
STANDARD & CERTIFICATION	
Safety	IEC62619, IEC60730, IEC62040, EN62477, UKCA, VDE 2510
Transport testing requirement	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 Nominal / Maximum operation current and nominal / maximum power derating will occur related to temperature or SOC