



TSYS-HS51

T-HS10.2 / T-HS15.3 / T-HS20.4
T-HS25.6 / T-HS30.7 / T-HS35.8
T-HS40.9 / T-HS46.0 / T-HS51.2
T-HS56.3 / T-HS61.4 / T-HS66.5



High Performance

- The HS51 battery delivers up to 70A current for rapid charging & discharging, ensuring reliable high-power performance during peak demand.
- Its cutting-edge battery technology enables reliable performance across an impressive temperature range of -30°C to 53°C.



Flexible Expansion

- Accommodating a capacity range of 10.2 kWh to 40.9 kWh for single-phase inverters and 15.3 kWh to 66.5 kWh for three-phase inverters.
- The HS51 battery supports connecting to two inverter battery ports via a performance enhanced cable, enhancing both current output and performance.
- It supports parallel connections of two battery rows with a parallel cable for capacity expansion and three rows using the TCBox-70 for even greater capacity.



Stability and Reliability

- With an IP66 rating, the HS51 is highly reliable against dust and water and suitable for various environments.
- It features LFP cells, offering over 6000 charge cycles for over 10 years safe operation.



Convenient Installation

- Its compact and stackable design enable quick and effortless installation.



Versatile Compatibility

- It is compatible with both single-phase and three-phase inverters, the HS51 is ideal for residential, commercial and industrial applications.

SYSTEM SPECIFICATION												
Module Quantity	2	3	4	5	6	7	8	9	10	11	12	13
Nominal Capacity [kWh]	10.2	15.3	20.4	25.6	30.7	35.8	40.9	46.0	51.2	56.3	61.4	66.5
Usable Energy (90%DOD) ^① [kWh]	9.1	13.7	18.3	23.0	27.6	32.2	36.8	41.4	46.0	50.6	55.2	59.8
Nominal Voltage [V]	102.4	153.6	204.8	256	307.2	358.4	409.6	460.8	512	563.2	614.4	665.6
Operating Voltage Range [V]	85-116	128-174	170-232	212-289	255-347	297-405	340-463	382-520	424-578	467-636	509-694	552-750
Nominal Operation Current ^③ [A]	60											
Maximum Operation Current ^{②③} [A]	70											
Nominal Power ^③ [kW]	6.1	9.2	12.3	15.4	18.4	21.5	24.6	27.6	30.7	33.8	36.9	39.9
Maximum Power ^③ [kW]	7.2	10.8	14.3	17.9	21.5	25.1	28.7	32.3	35.8	39.4	43.0	46.6
Depth of Discharge [%]	90											
Communication Interfaces	CAN + RS485											
Dimension (WxHxD) [mm]	600 x 621 x 376	600 x 789 x 376	600 x 957 x 376	600 x 1125 x 376	600 x 1293 x 376	600 x 1461 x 376	600 x 1629 x 376	600 x 957 x 376 + 600 x 1125 x 376	600 x 1125 x 376 + 600 x 1125 x 376	600 x 1293 x 376 + 600 x 1125 x 376	600 x 1293 x 376 + 600 x 1293 x 376	600 x 1461 x 376 + 600 x 1293 x 376
BMS												
Model	TBMS-S51-8											
Dimension (WxHxD) [mm]	600 x 225 x 376											
Weight [kg]	18.5											
BATTERY MODULE												
Model	TB-HS51											
Battery Type	Li-ion (LFP)											
Cycle Life (90% DOD)	6000											
Module Capacity [kWh]	5.1											
Dimension (WxHxD) [mm]	600 x 168 x 376											
Weight [kg]	46.0											
Installation Type	Stackable Level Package											
SERIES BOX												
Dimension (WxHxD) [mm]	600 x 225 x 376											
Weight [kg]	15.0											
GENERAL SPECIFICATION												
Installation	Floor Stand											
Charge / Discharge Temperature Range (Without Heating) [°C]	0°C to 53°C (Charge) -20°C to 53°C (Discharge)											
Charge / Discharge Temperature Range (With Heating) [°C]	-30°C to 53°C (Charge / Discharge)											
Relative Humidity [%]	4 ~ 100 (Condensing)											
Altitude [m]	Below 3000											
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.