

High-voltage Battery System



T-BAT H 5.8(H) V3



HV11550(H) V3



5.8kWh ~ 34.6kWh



High Performance

- Max expandable to 6 units with 34.6kWh capacity for single cluster: cover more customer usage scenarios*
- 95% Depth of Discharge (DOD): Delivers more usable energy over its lifetime
- Cycle life> 6000 cycles: Ultra-long lifespan, ensuring consistent performance and long-term reliability.
- Flexible Heating: The T58-V3 features flexible two-level battery heating, designed to meet diverse user needs for optimal performance.



Assured Reliability

- Aerosol fire suppression for precise protection
- IP66 Ingress protection
- No toxic heavy metals or caustic materials
- LFP battery cell & high-performance processors



Smart Management

- Remote fault diagnosis, upgrade and maintenance: Rapid issue identification



Flexible Adaptability

- Floor or wall mounting optional: fits multiple installation scenarios

*Inverters with two battery ports: Max expandable to 6 units with 69.1kWh capacity

T-BAT H 5.8(H) V3 T-BAT H 11.5(H) V3 T-BAT H 17.3(H) V3 T-BAT H 23.0(H) V3 T-BAT H 28.8(H) V3 T-BAT H 34.6(H) V3

Nominal Voltage	115.2 V	230.4 V	345.6 V	460.8 V	576 V	691.2 V
Operating Voltage Range	100-130 V	200-260 V	300-390 V	400-520 V	500-650 V	600-750 V
Nominal energy	5.8 kWh	11.5 kWh	17.3 kWh	23.0 kWh	28.8 kWh	34.6 kWh
Usable energy (95% DOD) ①	5.5 kWh	10.9 kWh	16.4 kWh	21.9 kWh	27.4 kWh	32.9 kWh
Rated power	2.9 kW	5.8 kW	8.6 kW	11.5 kW	14.4 kW	17.3 kW
Max. power	4 kW	8.1 kW	12.1 kW	16.1 kW	20.2 kW	24.2 kW
Recommend charge / discharge current	25 A					
Max. charge / discharge current ②	35 A					
Depth of discharge	95%					
Cycle Life [95% DOD] ③	>6000 Cycles					
Warranty	10 Years					
ENVIRONMENTAL REQUIREMENTS						
Charge temperature	0°C ~ 55°C (off heating function) -30°C ~ 55°C (on heating function) ④					
Discharge temperature	-20°C ~ 55°C (off heating function) -30°C ~ 55°C (on heating function) ④					
Cooling concept	Natural					
Storage Temperature	-20°C~30°C (12 months) 30°C~55°C (6months)					
Relative Humidity	4 ~ 100% (condensing)					
Max. operating altitude	2000 m					
Installation Type	Wall mounting / Floor mounting					
Ingress protection	IP66					
Environment	Outdoor / indoor					
BATTERY MODULE (BMS+PACK)						
Model	T-BAT H 5.8(H) V3					
Dimensions (WxHxD)	474 x 715 x 150 mm					
Net weight	61.5 ± 1 kg					
BATTERY MODULE						
Battery model	HV11550(H) V3					
Battery Type	LFP					
Scalability	1~5					
Module capacity	5.8 kWh					
Dimensions (WxHxD)	474 x 715 x 150 mm					
Net weight	59.5 ± 1 kg					
COMMUNICATION						
Communication interfaces	CAN 2.0 + RS485					
STANDARD						
Hazardous materials classification	Class 9					
Transport Testing Requirement	UN38.3					
Protection class	Class I					
Certifications	IEC62619 / IEC63056 / IEC60730 / IEC62040 / IEC61000-1&-3 / EN62477 / VDE2510					

① Test conditions: 95% DOD, 0.2C charge & discharge @+25°C

② Current is affected by the number of batteries connected in parallel as well as temperature and SOC

③ Test conditions: 25°C±2°C, 0.5C charge & discharge, 70%EOL

④ Discharge: In case of battery cell's temperature range of -20°C~10°C and 45°C~55°C, the discharge current will be reduced; Charge: In case of battery cell's temperature range of 0°C~25°C and 45°C~55°C, the charge current will be reduced. Product charge or discharge power depends on the actual temperature of battery pack.

⑤ The battery can only be discharged and can not be charged when the battery cell's temperature range is between -20°C and 0°C