

# Trinahome T Series (High Voltage Performance Battery)

Trina Energy Storage Solutions for New Residential Installations



## PV & Battery Hybrid System

**Rated Power: 5.2 kW, 9.8 kW  
(Three-phase)**



**Capacity: 6 kWh - 18 kWh  
(Expandable in steps of 3 kWh)**

**Warranty: 10 years Battery Performance  
(Expected Lifetime 20 years)**



Plug & Play



Backup



Visualisation



Self-Consumption



Modular Customised



Easy Installation



Reliable Performance



Proven Safety

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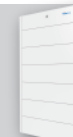
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Hybrid Inverter	TB5200TH	TB9800TH
<b>PV Input</b>		
Max. PV Input Power / Max. PV Array Size	5200 W / 6800 W	9800 W / 12800 W
Max. PV Voltage	800 V	900 V
MPP Voltage Range	150 - 700 V	200 - 800 V
MPP Tracker	1	2
Max. Input Current	15 A	2 * 14 A
Max. Short-circuit Current, Module Array	18.8 A	2 * 17.5 A
Start PV Voltage	200 V	300 V
<b>Battery Input (DC)</b>		
Max. Charging / Discharging Power*	4000 W / 4000 W	8000 W / 8000 W
Max. Charging / Discharging Current	18 A / 18 A	20 A / 20 A
Operation Voltage Range	120 - 500 V	200 - 800 V
Battery Full Power Voltage Range	222 - 500 V	400 - 800 V
<b>AC Output</b>		
Max. Output Power	5000 W	9600 W
Rated Output Voltage	3N - 400 Vac	
Rated Output Frequency	50 Hz	
AC Nominal Current	7.2 A	13.9 A
<b>Back-up Function (optional, need an additional external backup switch box)</b>		
Max. Auto-switching Time	< 5 Seconds	
AC Voltage L - L	324 V - 436 V	
AC Rated Frequency	50 Hz	
Max. Backup Supply Power	2.5 kVA	4.8 kVA
<b>Other Parameters</b>		
Max. efficiency (PV - battery - grid)	> 91 %	> 91 %
Europ. efficiency (PV - grid)	95.20 %	96 %
IP Protection Class	IP 65	
Noise	< 55 dB	
Dimension (W x H x D)	409 x 542 x 230 mm	540 x 670 x 275 mm
Weight	< 35 kg	< 55 kg
Cooling	Forced Air Cooling	
Certificate	VDE 4105, IEC 62109, IEC 62477	

### Battery Packs

Nominal Voltage	200 V	300 V	400 V	500 V	600 V
Applicable System	TB5200TH	TB5200TH / TB9800TH	TB5200TH / TB9800TH	TB9800TH	TB9800TH
Usable Battery Capacity	2 * 3 kWh	3 * 3 kWh	4 * 3 kWh	5 * 3 kWh	6 * 3 kWh
Single Module / Control Box Weight	< 30 kg / 10 kg				
Module Appearance and Dimension (W x H x D) / Weight	 740 x 600 x 180 mm < 70 kg	 740 x 820 x 180 mm < 100 kg	 740 x 1040 x 180 mm < 130 kg	 740 x 1260 x 180 mm < 160 kg	 740 x 1480 x 180 mm < 190 kg
<b>Other Parameters</b>					
Battery Cell	NCA				
DOD	100 %				
Cycle Life	> 8000				
Communication	CAN2.0				
Certificate	UN 38.3, CE				
IP Protection Class	IP 21 (IP 55 - to be upgraded by October 2017)				

### System

Humidity	0 ~ 95 %
Operating Temperature Range	-10 ~ 45 °C (-10 ~ 0 °C with derating)
Warranty	5 years product, 10 years battery performance

\* The actual Max. charging / discharging will be depending on different output voltage of connected battery bank.  
CAUTION: READ SAFETY AND INSTALLATION INSTRUCTIONS BEFORE USING THE PRODUCT.

