

Trinahome S Series (NCA Type Battery)

Trina Energy Storage Solutions for New Residential Installations



PV & Battery Hybrid System

Rated Power: 3.7 kW
(Single-phase)



Capacity: 3 kWh - 12 kWh
(Expandable in steps of 3 kWh)

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



Plug & Play



Backup Possible



Visualisation



Self-Consumption



Modular Customised



Easy Installation



Reliable Performance



Proven Safety

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Hybrid Inverter

TB3700SH

PV Input	
Max. PV Input Power / Max. PV Array Size	3700 W / 4800 W
Max. PV Voltage	550 V
MPP Voltage Range	125 - 530 V
MPP Tracker	2
Max. Input Current	2 * 12 A
Max. Short-circuit Current, Module Array	2 * 15 A
Start PV Voltage	125 V
Battery Input (DC)	
Max. Charging / Discharging Power*	2400 W / 2400 W
Max. Charging / Discharging Current	50 A / 50 A
Operation Voltage Range	40 - 60 V
Battery Full Power Voltage Range	48 - 60 V
AC Output	
Max. Output Power	3600 W
Rated Output Voltage	230 Vac
Rated Output Frequency	50 Hz
AC Nominal Current	16 A
Back-up Function Possible (Integrated)	
Max. Auto-switching Time	< 5 Seconds
AC Rated Frequency	50 Hz
Max. Backup Supply Power	2 kVA
Other Parameters	
Max. efficiency (PV - battery - grid)	≥ 80 %
Max. efficiency (PV - grid)	≥ 95 %
IP Protection Class	IP 20
Noise	< 55 dB
Dimension (W x H x D)	660 x 520 x 170 mm
Weight	< 35 kg
Cooling	Forced Air Cooling
Certificate	VDE 4105, G 83, AS 4777, IEC 62109

Battery Packs

Nominal Voltage	51.8 V			
Usable Battery Capacity	1 * 3 kWh	2 * 3 kWh	3 * 3 kWh	4 * 3 kWh
Module Appearance and Dimension (W x H x D) / Weight	 790 x 220 x 190 mm < 35 kg	 790 x 440 x 190 mm < 70 kg	 790 x 660 x 190 mm < 105 kg	 790 x 880 x 190 mm < 140 kg
Other Parameters				
Battery Cell	NCA			
DOD	100 %			
Cycle Life	> 8000			
Communication	CAN2.0			
Certificate	UN 38.3, CE			
IP Protection Class	IP 21			

System

Humidity	0 ~ 95 %
Operating Temperature Range	-10 ~ 45 °C (-10 ~ 0 °C only discharge)
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.

