

# 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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<b>Hybrid Inverter</b>		<b>TB3700SH</b>
<b>PV Input</b>		
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	
<b>Battery Input (DC)</b>		
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	
<b>AC Output</b>		
Max. Output Power	3600 W	
Rated Output Voltage	230 Vac	
Rated Output Frequency	50 Hz	
AC Nominal Current	16 A	
<b>Back-up Function Possible (Integrated)</b>		
Max. Auto-switching Time	< 5 Seconds	
AC Rated Frequency	50 Hz	
Max. Backup Supply Power	2 kVA	
<b>Other Parameters</b>		
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	

<b>Battery Packs</b>				
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
<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			

<b>System</b>	
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.

