

Technical Data

Model	TSOL-MH2000	TSOL-MH2000DE	TSOL-MH1000	TSOL-MH1000DE
PV Input(PV)				
Recommended Module Power (Wp)	300 – 700+	300 – 700+	300 – 700+	300 – 700+
Quantity of PV Module	1 to 4	1 to 4	1 to 2	1 to 2
Start up Voltage @Rated condition (V)	22	22	22	22
Operating Voltage Range per Input (V)	16 – 60	16 – 60	16 – 60	16 – 60
Max. Input Voltage per Input (V)	60	60	60	60
Short Circuit Current per Input (A)	25	25	25	25
Max. Input Current per Input (A)	18	18	18	18
Quantity of MPPTs	4	4	2	2
Quantity of DC Inputs (MC4)	4	4	2	2
Battery (DC)				
Battery Capacity (Wh)	2048	2048	2048	2048
Battery Type	LiFePO ₄	LiFePO ₄	LiFePO ₄	LiFePO ₄
Nominal Voltage (V)	51.2	51.2	51.2	51.2
Operating Voltage Range (V)	43.2 – 58.4	43.2 – 58.4	43.2 – 58.4	43.2 – 58.4
Max. Discharge Power (W)	2000	2000	1000	1000
Max. Discharge Current (A)	45	45	25	25
Max. Charge Power (W)	2000	2000	1000	1000
Max. Charge Current (A)	40	40	20	20
Max. System Capacity (kWh)				
AC Port (On-grid)				
Max AC Output Power (W)	2000	800	1000	800
Max. AC Output Current (A)	10	8	5	4
Max. AC Input Power (W)	2000	2000	1000	1000
Max. AC Input Current (A)	11	11	5.5	5.5
Max. AC Input Current (A)	220 / 230 / 240, L / N / PE			
Nominal AC Frequency (Hz)	50 / 60			
Power Factor	> 0.99 default 0.8 leading ... 0.8 lagging			
THDI	≤ 3 % @100 % Load			
AC Port (Off-grid)				
Max. AC Output Power (W)	2000	2000	1000	1000
Max. AC Output Current (A)	10	10	5	5
Nominal AC Voltage (V)	220 / 230 / 240, L / N / PE			
Nominal AC Frequency (Hz)	50 / 60			
Switch Time (ms)	< 10			
Peak Output Apparent Power (VA)	150 % 2 s			



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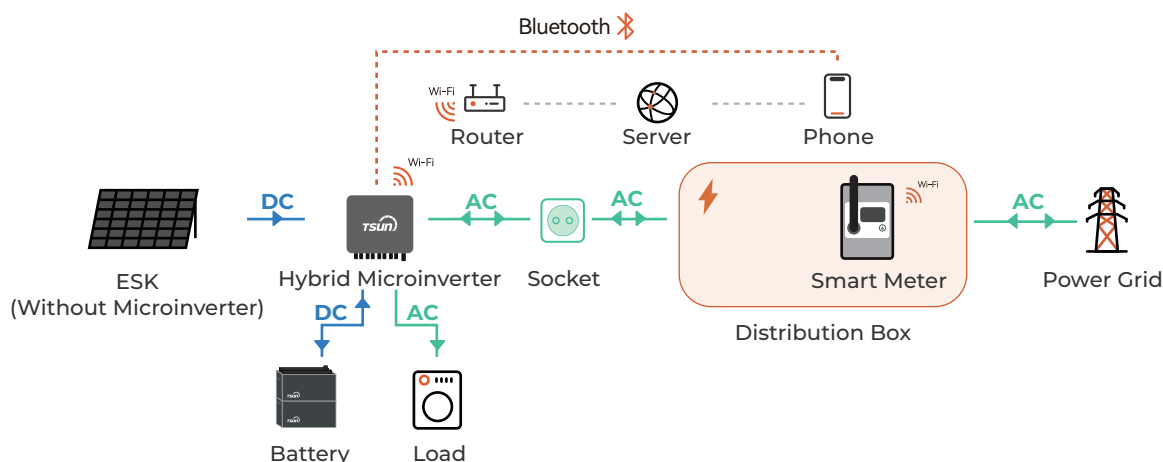
Model	TSOL-MH2000	TSOL-MH2000DE	TSOL-MH1000	TSOL-MH1000DE
Efficiency				
Peak Inverter Efficiency			97.0 %	
EU Efficiency			96.7 %	
MPPT Efficiency			99.9 %	
Battery Charge / Discharge Efficiency			95 % / 95 %	
Mechanical Data				
Dimensions (Wx H x D mm)			360 x 320 x 51	
Weight (kg)			8	
General Data				
Communication			WiFi (Bluetooth) + 2 x RS485	
Ingress Protection			IP67	
Cooling			Natural Convection	
Operating Ambient Temperature Range			-40 °C to 65 °C	
Relative Humidity			0 – 95 %, Non condensing	
Max. Operating Altitude Without Derating (m)			2000	

Diagram

Hybrid Microinverter is one key compoments of the plug and play storage system which designed for end-users.

Hybrid Microinverter, which is connected between solar modules and battery, can charge excess electrical energy into the battery and release it when needed.

This solution, Solar Module + Hybrid Microinverter+ Battery, is typically used as an energy storage solution for small household, conventional balconies, courtyards, family carports, and other micro systems.



For more information, visit/ contact us at www.tsun-ess.com

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Hybrid Microinverter

TSOL-MH2000/MH1000



Hybrid Microinverter is one key components of the plug and play storage system which designed for end-users.

Hybrid Microinverter, which is connected between solar modules and battery, can charge excess electrical energy into the battery and release it when needed.



Charge Battery from
Module and Grid



Compatible with
Various Types of Batteries



-40°C ~ +65°C
Working Temperature



Built-in WiFi, Bluetooth
APP Remote Monitoring



Zero Export
(optional)



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