Hybrid Microinverter

TSOL-MH2000/MH1000

MORE SAFETY MORE POWER

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.

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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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
Nominal AC Voltage (V)	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			

Technical Data

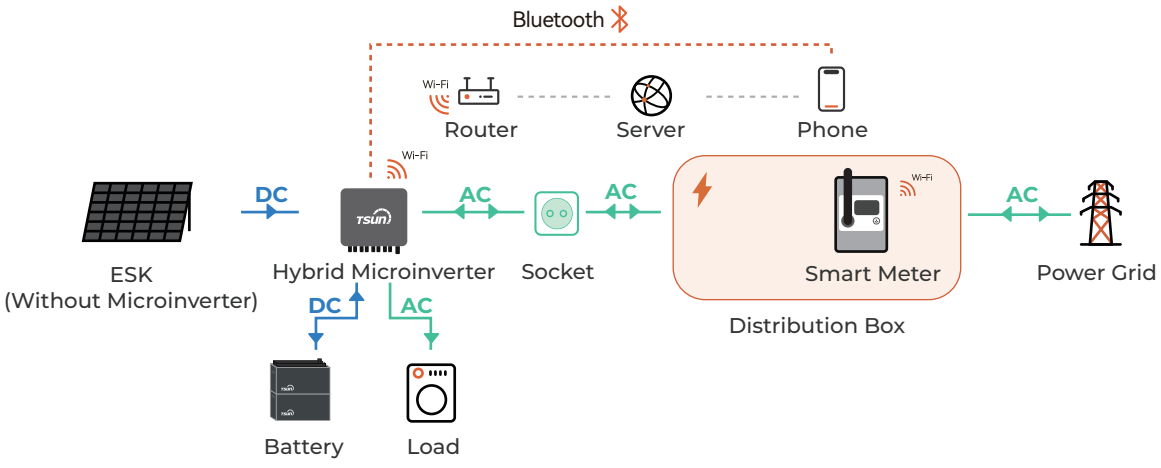
Model	TSOL-MH2000	TSOL-MH2000DE	TSOL-MH1000	TSOL-MH1000DE
Efficiency				
Peak Inverter Efficiency	97.0 %			
EU Efficiency	96.7 %			
MPPT Efficiency	99.9 %			
Battery Charge / Discharge Efficiency	95 % / 95 %			
Mechanical Data				
Dimensions (Wx H x D mm)	360 x 320 x 51			
Weight (kg)	8			
General Data				
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.



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