## **Hybrid Microinverter**



TSOL-MH2000



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



Built-in WiFi, Bluetooth APP Remote Monitoring



Compatible with Various Types of Batteries





-20°C ~ +60°C Working Temperature







Input [DC]	MH2000	
Recommended Module Power [Wp]	300 ~ 700+	
Start up Voltage [V]	22	
MPPT Voltage Range per Input [V]	16~59	
Nominal DC Voltage [V]	42	
Input Voltage per Input [V]	59 Max.	
Short Circuit Current [A]	25	
Input Current per Input [A]	16 Max.	
Quantity of MPPTs	4	
Number of Inputs per MPPT	1	
PV Port	MC4	

### Battery [DC]

Operating Power [W]	2000 Max.	
Operating Current [A]	35 Max.	
Operating Voltage [V]	16~59 (LFP,VRLA etc)	
Max. Input Voltage per Input [V]	59	
Quantity of DC Port	2	
DC Port	MC4 Compatible	
Communication mode	RS485	
Discharge Power [W]	2000 Max.	
Battery Nominal Voltage [V]	24/36/48/51.2 etc.	
Charge/Discharge Current [A]	35 Max.	

#### Efficiency

MPPT Efficiency	99.8%
Peak Inverter Efficiency	96.7%
Charge/Discharge Efficiency	98%

### Output [AC]

Output Voltage/Range [V]	220/230/240
Nominal Frequency [Hz]	50
Output Power Factor	±0.8 ~ 1
Output Power [W]	2000 Max.
Output Current [A]	10 Max.
THDI	≤3%@100% Load

### Mechanical Data

Operating Altitude Without Derating [m]

Dimension [W×H×D mm]	360 * 320 *51
Weight [kg]	8

# General Data Display LED Waterproof class IP67 Cooling Natural convection Wireless type Wi-Fi/Bluetooth & RS485 Operating Temperature Range [°C] -40 ~ +65 Relative Humidity 0-95%, No condensing

2000

## **Hybrid Microinverter**

### TSOL-MH2000





Hybrid Storage Unit (HSU) is one key compoments of the plug and play storage system which designed for end-users.

HSU can store excess electrical energy in the battery and release it when needed.





-20°C ~ +60°C Working Temperature All-in-one Unit



Built-in WiFi, Bluetooth APP Remote Monitoring



Charge Battery from Module and Grid

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Input [DC]	HSU1000	HSU2000
Recommended Module Powe [Wp]	300 ~ 70	00+
Start up Voltage [V]	22	
MPPT Voltage Range per Input [V]	16~60	
Nominal DC voltage [V]	42	
Input Voltage per Input [V]	59 May	х.
Short-current [A]	25	
Input Current per Input [A]	16 Max	х.
Quantity of MPPTs	2	4
Number of Inputs per MPPT	1	
PV Port	MC4	

### Battery [DC]

Operating Power [W]	1000 Max.	2000 Max.	
Operating Current [A]	35 Max.	45 Max.	
Battery cell Capacity	42AH (2.15kwh)		
Battery Nominal Voltage [V]	51.2		
Communication mode	RS485		
Battery Pack	2P16S		
Charge/Discharge Current [A]	0.5C(21A)		

## Efficiency 99.8% MPPT efficiency 99.8% Peak Inverter Efficiency 96.7% Charge/Discharge Efficiency 98%

Output [AC]		
Output Voltage/Range [V]	220/230/2	240
Nominal Frequency [Hz]	50/60	
Output Power Factor	-0.8 ~ 0.8	
On-Grid Output Power [W]	1000 Max.	2000 Max.
Off-Grid Output Power [W]	1000 Max.	2000 Max.
Output Current [A]	5 Max.	10 Max.
THDI	≤3%@100% Load	

Mechanical Data		
Dimension [W×H×D mm]	430 * 310 * 336 (HSU) / 430 * 310 * 180 (Battery Pack)	
Weight [kg]	30 (HSU) / 18 (Battery Pack)	

General Data		
Display	LED	
Waterproof class	IP67	
Cooling	Natural convection	
Wireless type	Wi-Fi/Bluetooth & RS485	
Operating Temperature Range [°C]	-20 ~ +60	
Relative Humidity	0-95%, No condensing	
Operating Altitude Without Derating [m]	2000	