Hybrid Storage Unit

TSOL-HSU1000/HSU2000

TSUN
MORE SAFETY MORE POWER

Hybrid Storage Unit (HSU) is one key compomponents 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.

Zero Export

All-in-one Unit

Charge Battery from Module and Grid

60°C
-20°C
-20°C ~ +60°C
Working Temperature

Built-in WiFi, Bluetooth APP Remote Monitoring

Input [DC]	HSU1000	HSU2000
Recommended Module Powe [Wp]	300 ~ 700+	
Start up Voltage [V]	22	
MPPT Voltage Range per Input [V]	16~60	
Nominal DC voltage [V]	42	
Input Voltage per Input [V]	59 Max.	
Short-current [A]	25	
Input Current per Input [A]	16 Max.	
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		
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]	50/60	
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 [℃]	-20 ~ +60	
Relative Humidity	0-95%, No condensing	
Operating Altitude Without Derating [m]	2000	