

# Hybrid Storage Unit

TSOL-HSU1000/HSU2000



Hybrid Storage Unit (HSU) is one key components 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



-20°C ~ +60°C  
Working Temperature



Built-in WiFi, Bluetooth  
APP Remote Monitoring

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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]	HSU1000	HSU2000
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	HSU1000	HSU2000
MPPT efficiency		99.8%
Peak Inverter Efficiency		96.7%
Charge/Discharge Efficiency		98%

Output [AC]	HSU1000	HSU2000
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	HSU1000	HSU2000
Dimension [W×H×D mm]	430 * 310 * 336 (HSU)	430 * 310 * 180 (Battery Pack)
Weight [kg]	30 (HSU)	18 (Battery Pack)

General Data	HSU1000	HSU2000
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