

H8000S

8kW Single-phase Hybrid Inverter

- Three MPPT, 150% oversized PV input, up to 18,000W
- Lightweight and compact design, easy to install
- External pull-out smart fan design, reducing post-sales maintenance costs and extending product lifecycle
- 240A ultra-large battery charge/discharge current, faster charging speed, and stronger load capacity
- Maximum efficiency of 97.8%, delivering higher economic benefits
- Six units support off-grid parallel operation, achieving a maximum power output of 72kW
- Generator compatibility with dry contact control for automatic diesel engine start/stop and intelligent load management
- 4.3-inch large LCD screen combined with APP remote monitoring for convenient and efficient system management



Technical Specification		H8000S
PV Input Specification		
Recommended max. PV input power(Wp)		18000
Max. PV input voltage(V)		500
Startup input voltage(V)		100
No. of independent MPPT inputs		3
No. of PV strings per MPPT		2+1+1
Max. PV input current(A)		28/16/16
Battery Specification		
Battery voltage range(V)		40-60
Max. charge / discharge current(A)		240/240
Max. charge / discharge power(W)		12000
Battery Expansion		1~6 parallel-connected 5kWh Low-voltage battery modules/ 1~6 parallel-connected 10kWh Low-voltage battery modules
Grid Port Specification		
Max. AC power from grid(W)		18000
Max.AC input current from grid(A)		78.2
Rated AC output power(W)		12000
Rated AC voltage		L/N/PE,220V/230V
AC voltage range(V)		185- 265
Rated grid frequency(Hz)		50
Grid frequency range(Hz)		48-51.5
Harmonic (THD)		<3%(at rated power)
Power factor at rated power / Adjustable power factor		0.8 leading – 0.8 lagging
GEN Port Specification		
Max. AC power from GEN(W)		12000
Rated AC input power(W)		12000
Max.AC input current from GEN(A)		52.2
Max. AC output current(A)		57.4
Rated AC voltage		L/N/PE,220V/230V
AC voltage range*(V)		185V-265
Rated GEN frequency(Hz)		50
Backup Port Specification		
Rated voltage		L/ N / PE, 220 V / 230 V
Rated grid frequency(Hz)		50
Output voltage harmonic (THD)		<3 %
Switch time to emergency mode		≤10 ms
Rated output power(W)		12000
Peak output power(W)		13200
Efficiency		
Max. efficiency / European efficiency		97.8%/96.5%
General data		
Topology (solar / battery)		Transformerless
Degree of protection		IP65
Dimensions (W * H * D)(mm)		459*650*267
Weight(Kg)		48.5
Cooling method		Smart Cooling
Noise(MAX)		<50 dB
Ambient temperature(°C)		-20°C~+60°C
Relative humidity (Non-condensing)		15% - 95%
Max. operating altitude		3000m
Display		LCD+APP
Monitor		RS485, WLAN, Ethernet, CAN
Surge protection		DC type II / AC type III
Warranty		5 Years

AC voltage range*: Voltage ranges vary according to national regulations.