

HS SERIES SINGLE PHASE HYBRID INVERTER

HS1022EH24L ~ HS1033EH48L

2.2kW~3.3kW / BAT24V&48V / 230Vac



Reliable performance

- Both the battery side and the load side have super strong load capacity, smooth voltage and current waveforms, and can drive inductive loads such as air conditioning, supporting unlimited load
- Independent intelligent load/generator interface, compatible with existing PV system access, can operate without batteries (PV+grid combined power supply).
- Even without a battery, it can be bypassed for output, important loads will not be powered off; The grid connected electricity sales function significantly improves energy utilization efficiency.

Super Protection

- AICOT island protection, anti backflow (internal/external), PV reverse connection alarm, External CT reverse connection alarm and open circuit detection functions.

Economic benefits

- PV input can exceed 2 times the rated power, supports simultaneous full battery charging and load operation, maximizing revenue.
- Supports grid connected, off grid, and grid connected switching modes, with adaptive frequency and the ability to set charging and discharging strategies based on time of use electricity prices to achieve economical energy use.

Friendly Design

- Removable dust cover suitable for harsh environments; Support battery activation function.

Parameters

MODEL	HS1022EH24L	HS1022EH48L	HS1033EH24L	HS1033EH48L
Battery Voltage	24Vdc	48Vdc	24Vdc	48Vdc
Battery Type	Lead-acid, lithium batteries, gel batteries, etc			
Output				
Rated Output Power	2400VA/2200W		3600VA/3300W	
Parallel Function	N/A			
Rated Output Voltage	230Vac ±4%			
Rated Output Frequency	50/60Hz ±0.3(Adaptive)			
Output Waveform	Pure sine wave			
Max Efficiency(Peak)	93.8%			
Rated Current	9.6A		14.3A	
Transfer Time	10ms(Typical value)			
PV Input				
Max PV Power	3600W			
MPPT Voltage Range	90~500Vdc			
Max Input Voltage	500Vdc			
Max Charging Current	100A	60A	100A	60A
Mains/ Generator Input				
Max Charging Current	60A	30A	60A	30A
AC Input Voltage Range (UPS mode)	170~280Vac,±2%			
Frequency Range	(47-55Hz) ±0.3 / (57-65Hz) ±0.3			
Battery Input				
Voltage Range	20~33Vdc	40~60Vdc	20~33Vdc	40~60Vdc
Max Charging Current	100A	60A	100A	60A
Default Charging Current	30A			
General Parameters				
Dimension. W*D*H(mm)	269*100*372			
Installation Method	Wall-mounted			
Weight (kg)	7.2			
Communication Mode	RS485, Optional WIFI/4G			
Protection function	Over/Under Voltage Protection, Over/Under Frequency Protection, AC Output Short Circuit Protection, AC Output Overload Protection, High/Low Temp Protection			
Operating Environment				
Operating Ambient Temperature	-10°C~55°C			
Storage Ambient Temperature	-20°C~60°C			
Humidity	5%-95% Non-condensation			
Altitude	4000m(> 2000m Derating)			
Installation Environment	For indoor use only			
Certifications				
Certification	CE , RoHS			
Certifications standard	IEC/EN 61000-6-1/3 、 EN 62920 、 IEC 62109-1、 IEC 62109-2、 IEC 62321			

Specifications are subject to change without advance notice.