



HS SERIES SINGLE PHASE HYBRID INVERTER

HS1102EH48L ~ HS1132EH48L

10.2kW~13.2kW / BAT48V / 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

- 2 MPPT channel, PV input can exceed 1.7-2 times the rated power, supporting simultaneous full power charging and load, maximizing economic benefits.
- 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

- High definition touch screen and LED screen are optional, supporting multiple languages; Removable dust cover suitable for harsh environments; Support battery activation function.

Parameters

MODEL	HS1102EH48L	HS1105EH48L	HS1112EH48L	HS1122EH48L	HS1132EH48L
Battery Voltage	48Vdc				
Battery Type	Lead-Acid Battery/Lithium Battery/Gel Battery				
Output					
Rated Output Power	10200VA/10200W	10500VA/10500W	11200VA/11200W	12200VA/12200W	13200VA/13200W
Rated Output Voltage	220Vac/230Vac				
Rated Output Frequency	50Hz/60Hz ±5 Intelligent Adaptive/Setting				
Output Waveform	Pure sine wave				
Max Conversion Efficiency	92.0%				
Rated Current	44.3A	45.7A	48.7A	53.0A	57.4A
Transfer Time	10ms(Typical value)				
PV input					
Max PV Input Power	10000W+10000W				
Max PV Input Current	22A+22A				
MPPT Voltage Range	90~500Vdc				
Max PV Input Voltage	500Vdc				
Max Charging Current	180A	200A	200A	200A	220A
Number of MPPT / Strings per MPPT	2/1+1				
Mains/ Generator Input					
Max Charging Current	100A	120A	120A	120A	120A
AC Input Voltage Range (UPS mode)	170~280Vac,±2%				
Frequency Range	50Hz/60Hz				
Battery Input					
Battery Voltage Range	40~60Vdc				
Max Charging Current	180A	200A	200A	200A	220A
General Parameters					
Dimension. W*D*H(mm)	355*133*510				
Installation Method	Wall-mounted				
Weight (kg)	13.8				
Communication Mode	RS485/Dry contact control , Optional WIFI/4G				
Protection function	Grid Overvolt/Undervolt Protection , Grid Overfreq/Underfreq Protection , AC Output Short-Circuit / Overload Protection , High-Temp/Low-Temp Protection				
Operating Environment					
Operating Ambient Temperature	-25°C~60°C(> 45°C Derating)				
Storage Ambient Temperature	-20°C~60°C				
Humidity	0%~95% Non-condensation				
Altitude	< 2000m				
Installation Environment	For indoor use only				
Certifications					
Certification	CE , RoHS				
Certifications standard	IEC/EN 61000-6-1/3 , EN62920, CLASS B , IEC 62109-1, IEC 62109-2, IEC 62321				

Specifications are subject to change without advance notice.