

# INOVO 6KW HYBRID INVERTER



## SERIES-X HYBRID INVERTER HC1060EH48L

6kW / BAT48V /230Vac/IP65



### 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 islanding protection, IP65 protection level, anti backflow (internal/external), PV reverse alarm, External CT reverse connection alarm and open circuit detection functions.

### Economic benefits

- 2 MPPT channel, PV input can exceed twice 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 supports multiple languages; Removable dust cover suitable for harsh environments; Flexible setting of AC output voltage standards; Support battery activation function.

## HC1060EH48L Parameters

MODEL	HC1060EH48L
<b>PV Input</b>	
Max PV Input Power	6000W+6000W
Max PV Input Voltage	500Vdc
PV Input Startup voltage	90Vdc
MPPT Input Voltage	120-425Vdc
MPPT Full Load Voltage Range	350-425Vdc
PV Max Input Current	18A+18A
PV Short-circuit Current	26A
Number of MPPT / Strings per MPPT	2/1+1
<b>AC Output</b>	
Rated Output Voltage	220V/230Vac
Output Frequency Range	50/60Hz(±5), Intelligent adaptive/Settable
Rated Off-grid current	26.1A
Max off-grid Power	6000W
Grid Type	Single Phase, L+N+PE
Output Power Factor	> 0.99 @ Rated power (Adjustable 0.8 leading-0.8 lagging)
THDv	<3%
Transfer Time	<10ms
Off-grid Overload Capability	101%-110% 30s, >110% 10s
Bypass overload capacity	<120%, Long-term
<b>Battery Input</b>	
Battery Type	Lead-acid, lithium batteries, gel batteries, etc
Battery Voltage	48Vdc(40V~60V)
Max Discharge Current	120A
Max Charging Current	120A
Max Discharge Power	6000W
Max Charging Power	6000W
<b>AC Input</b>	
Max. Input Power	6000W
Rated Input Voltage	150-290Vac (140-310V Optional)
Rated Input Frequency	50/60Hz(±5), Intelligent adaptive/Settable
Grid Input Current	40A
<b>Efficiency</b>	
Max PV Conversion Efficiency	97.6%
European Efficiency	96.5%
MPPT Efficiency	> 99%
<b>General Parameters</b>	
Display	Touch Screen+LED
Communication Mode	RS485/CAN, GPRS/WIFI/Bluetooth/4G/LAN (Optional)
Protection function	Grid/battery over- and undervoltage protection. Grid over- and underfrequency protection. Output short circuit/overload protection. PV reverse connection alarm. Battery charge and discharge overcurrent protection. Insulation impedance protection. Ground fault protection
Noise (dB)	<55
Cooling	Intelligent fan (IP68)
Operating Ambient Temperature	-40°C~60°C( > 45°C Derating )
Humidity	0-100%
Altitude	3000m (>2000m Derating)
Protection Degree	IP65
Installation Method	Wall-mounted
Dimension. W*D*H(mm)	320*170*440
Gross Weight (kg)	15
Warranty	5 years standard
<b>Certifications</b>	
Certification standard	IEC/EN 61000-6-1/3 . IEC/EN 61000-3-11/12. EN 62920 . IEC 62109-1. IEC 62109-2. IEC 62321

Specifications are subject to change without advance notice.