

HX-Series

Hybrid Solar Inverter

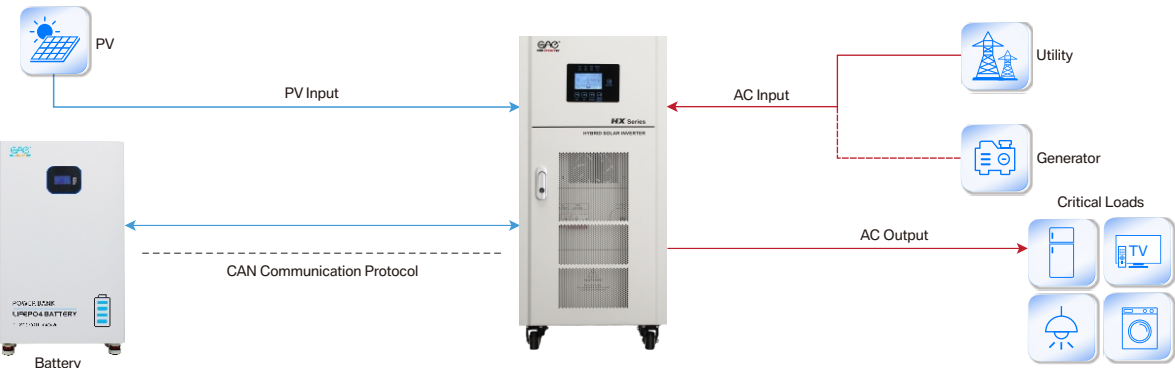


The HX Series is a professional hybrid solar inverter charger, ideal for backup, off-grid and energy storage systems. It delivers pure sine wave output with 15KW/20KW/30KW rated power, 3x peak power (45KW/60KW/90KW) and ≤8ms uninterrupted transfer.It is equipped with a 100A high-efficiency MPPT solar charger, compatible with SLA/AGM/Lithium(LiFePO4) batteries, and supports RS-485 communication.

FEATURES

- Rated power 15KW-30KW.
- Pure sine wave AC output.
- Clear display for real-time system monitoring.
- With CAN/RS485 for BMS communication.
- High efficiency, low loss, long-term reliability.
- Compatible with LiFePO4 batteries.
- WiFi remote monitoring (optional).

PRODUCT CONNECTION DIAGRAM



Model	HX-153	HX-203	HX-303
Rated Power	15KW	20KW	30KW
Peak Power	45KW	60KW	90KW

Input & Output		
DC Input Voltage	192V	240V
DC Input Voltage Range	168-240VDC	210-300VDC
AC Input Voltage Range	170-275VAC	
AC Input Frequency	50Hz / 60Hz ±5Hz	
Efficiency	≥ 85%	
Output Voltage	(Inverter Mode) 220VAC ±3%	
Output Frequency	(Inverter Mode) 50Hz / 60Hz ±0.5Hz	
Output Wave form	Pure Sine Wave	

Battery		
Battery High Voltage Alarm	> 240VDC	> 300VDC
Battery Low Voltage alarm	< 168VDC	< 210VDC
Overload/High Temperature/Short Circuit Protection	Automatic Shut-down	

Other	
Switch time	≤ 8ms
Display	LCD
Cooling System	Forced Air Cooling, Intelligent Speed Regulation
Operating Mode	AC Input Priority Mode / Battery Priority Mode / ECO Mode / Generator Mode / Unattended Mode
Communication	RS-485

Charger		
Charging Mode	Constand Current/Floating Charge/MPPT	
MPPT Efficiency	≥96.5%	
Photovoltaic module efficiency	≤99%	
PV. Open Circuit Voltage	≤650V	
PV. Operating Voltage	≤550V	
Maximum Charging Current	100A	
Maximum Solar Input	22400W	28000W
Type Of Battery	SLA Battery / AGM Battery / Lithium(lifepo4) Battery	
AC Charging Current	20A	

Working Environment	
Temperature	0~55°C
Humidity	0~95%(No Condensation)

Measurement			
Product Size(mm)	683x383x831		683x383x891
N. W.(KGS)	129	136	161