Hybrid Solar Inverter

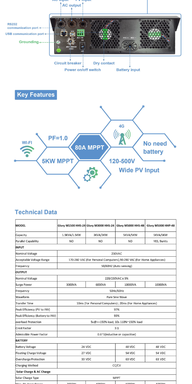
1.5KW - 5KW PV 120V-500V

Hybrid Solar Inverter 1.5KW - 5KW

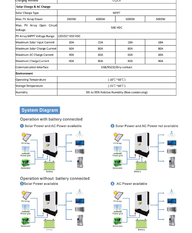
- Pure sine wave inverter
- Inverter running without battery
- Built-in MPPT solar controller
- Configurable input voltage range for home appliances and personal computers via LCD setting
- Configurable battery charging current based on applications via LCD setting
- Configurable AC/Solar Charger priority via LCD setting
- Compatible to mains voltage or generator power
- Auto restart while AC is recovering
- Overload/ Over temperature/ short circuit protection
- Smart battery charger design for optimized battery performance
- Cold start function
- Smart WiFi or 4G remote monitoring (optional)
- Parallel operation with up to 6units

Product Details

The operation and display panel include three indicators, four function keys and a LCD display, indicating the operating status and input/output power information.



Key Features



Technical Data

Series	1.5kW MODEL WP-1K	2.5kW MODEL WP-2K	3.5kW MODEL WP-3K	5kW MODEL WP-5K
Input PV	1 MPPT, 1 MPP	2MPPT, 1MPP	2MPPT, 1MPP	2MPPT, 1MPP
PV Mpp Capability	NO	NO	NO	YES, Ref to
AC Input				
Nominal Voltage	120VAC			
Acceptable Voltage Range	170-280 VAC (For Personal Computers) 90-280 VAC (For Home Appliances)			
Frequency	50/60Hz (Auto-sense)			
Islanding	Pure Sine Wave			
AC Output	1Ph/2w (For Personal Computers), 1Ph/3w (For Home Appliances)			
Rated Efficiency (PV to VAC)	>93%			
Rated Efficiency (Battery to VAC)	93%			
Overload Protection	To 60 s:105%-load, 60-150%:150% load			
Crest Factor	3:1			
Zero-cross Power Factor	0.97 (Detective or superior)			
BATTERY				
Battery Voltage	24 VDC	48 VDC	48 VDC	48 VDC
Floating Charge Voltage	27 VDC	54 VDC	54 VDC	54 VDC
Cut-off Voltage	20 VDC	40 VDC	40 VDC	40 VDC
Charging Method	CC/CV			
Solar Charge & AC Charge				
Max. Charge Type	MPPT			
Max. PV Array Power	2000W	4000W	4000W	5000W
Max. PV Array Open Circuit Voltage	500 VDC			
Max. MPPT Voltage Range	120VDC-450 VDC			
Maximum Solar Input Current	15A	15A	20A	20A
Maximum Solar Charge Current	60A	80A	80A	80A
Maximum AC Charge Current	30A	60A	60A	60A
Maximum Charge Current	90A	80A	80A	80A
Communication Interface	USB/RS232(For Contact)			
Environment				
Operating Temperature	(-20°C~60°C)			
Storage Temperature	(-15°C~60°C)			
Humidity	5% to 95% Relative Humidity (Non-condensing)			

System Diagram

Operation with battery connected

Solar Power and AC Power available

Solar Power and AC Power not available

Operation without battery connected

Solar Power available

AC Power available

When solar power is enough

When solar power is not enough

Smart System Wi-Fi or 4G Monitor

Available to check the system working status through the Wi-Fi or 4G monitor (optional)

Production line

Applications

Packaging