

# HYBRID SOLAR INVERTER

High Frequency Hybrid Solar Inverter

## NEOSUN PVH - 2K|3K|4K|5K

### Features

- Multiple operations - Grid-tie, Off-Grid, Grid-Interactive
- Built-in MPPT 60A/80A solar charge controller with efficiency up to 98%
- Parallel operation with up to 3 units (Available for 4KVA/5KVA only)
- Overload, short circuit and Deep discharge protection
- Smart LCD setting (Working modes, Charge Current, Charge Voltage, etc.)
- Support USB, RS485 monitoring function with free CD
- WIFI/ GPRS remote monitoring (optional)
- Compatible to Diesel Generator

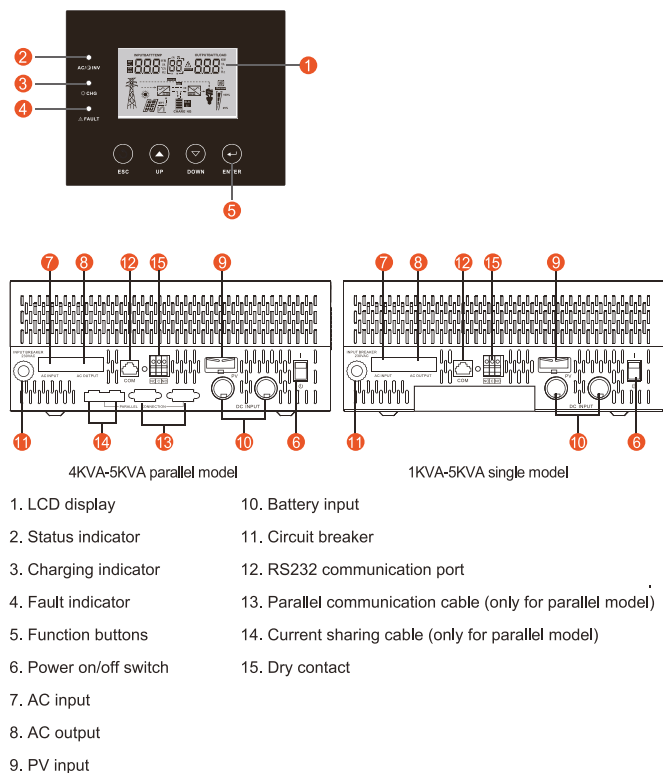


### Overview

This high frequency Hybrid Solar Inverter with built-in MPPT Solar charge Controller offer uninterruptible power support in a portable size. Suitable for parallel operation with total system capacity of up to 12kW.

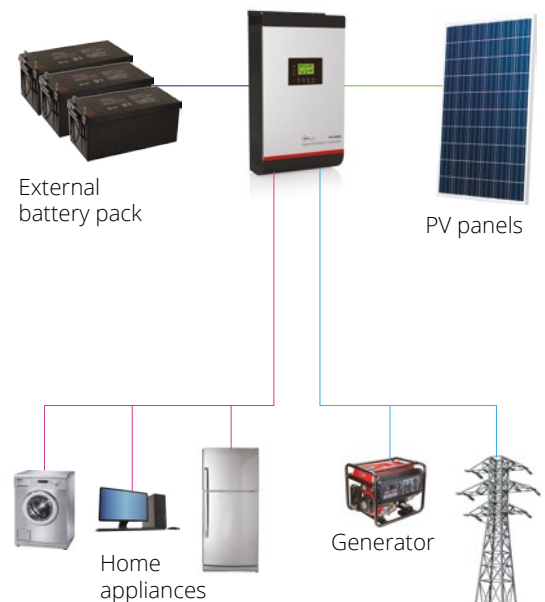
Its comprehensive LCD display offers user-configurable and easy-access button operation such as battery charging current, charger priority and input voltage based on different applications.

### LCD Display Information



**NOTE:** For parallel model installation and operation, please check separate parallel installation guide for the details.

### Solar system connection



### Back panel



Inverter Output	PVH-2K	PVH-3K	PVH-4K	PVH-5K
Default Battery System Voltage	24VDC		48VDC	
Rated Power	2000VA 1600W	3000VA 2400W	4000VA 3200W	5000VA 4000W
Surge Power	4000VA	6000VA	8000VA	10000VA
Waveform	Pure sine wave			
AC Voltage Regulation (Batt.Mode)	230VAC±5%			
Inverter Efficiency (Peak)	93%			
Transfer Time	10mS (FST;APL);20mS(SLO)			
Input (AC)				
Voltage	230VAC			
Selectable Voltage Range	170~280VAC(FST);90~280VAC(SLO);184~253VAC(APL)			
Frequency Range	50Hz / 60Hz (Auto sensing)			
Battery				
Nominal voltage	24VDC		48VDC	
Floating Charge Voltage	27VDC		54VDC	
Overcharge Protection	31VDC		60VDC	
Solar Charger & AC Charger				
Maximum PV Array Open Circuit Voltage	145VDC			
PV Array MPPT Voltage Range	30~130VDC		64~130VDC	
Standby Power Consumption	2W			
Rated Power	2000W		3000W	
Maximum Efficiency	98%			
Maximum Solar Charge Current	25A		60A	
Maximum AC Charge Current	20A or 30A		60A	
Maximum Charge Current	100A		120A	
Mechanical Specification				
Net / Shipping Dimensions (WxHxD)	272x355x100mm / 485x393x251mm		298x468x125mm / 638x395x241mm	
Net / Shipping Weight	7.5kg / 9.5kg		14kg / 16.5kg	
Other				
Humidity	5% to 95% Relative Humidity (Non-condensing)			
Operating Temperature	0°C to 55°C			
Storage Temperature	-15°C to 60°C			

Approximate Back-up Time Table

Model	Load (VA)	Backup Time@24V 100Ah (min)	Backup Time@24V 200Ah (min)	Model	Load (VA)	Backup Time@48V 100Ah (min)	Backup Time@48V 200Ah (min)	
2KVA	200	766	1610	2KVA	200	766	1610	
	1000	112	269		2KVA	1000	112	269
	2000	50	112			2KVA	2000	50
3KVA	300	449	1100	3KVA			300	449
	1500	68	164		3KVA		1500	68
	3000	28	67			3KVA	3000	28
4KVA	400	766	1610	4KVA			400	766
	2000	112	269		4KVA		2000	112
	4000	50	112			4KVA	4000	50
5KVA	500	613	1288	5KVA			500	613
	2500	90	215		5KVA		2500	90
	5000	40	90			5KVA	5000	40