



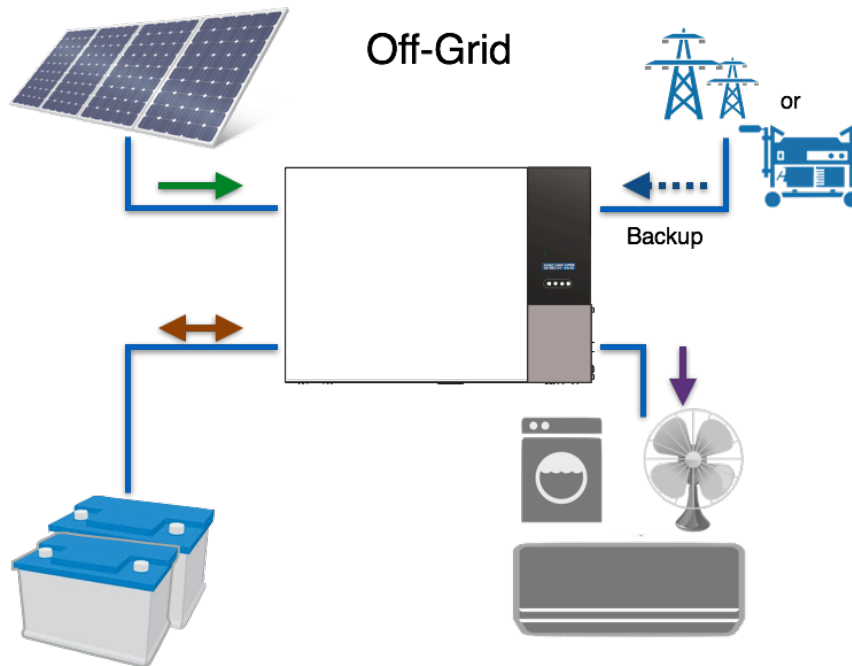
## HYBRID PRO™ PV INVERTER

Best solution for Photovoltaic and Storage

### FEATURES

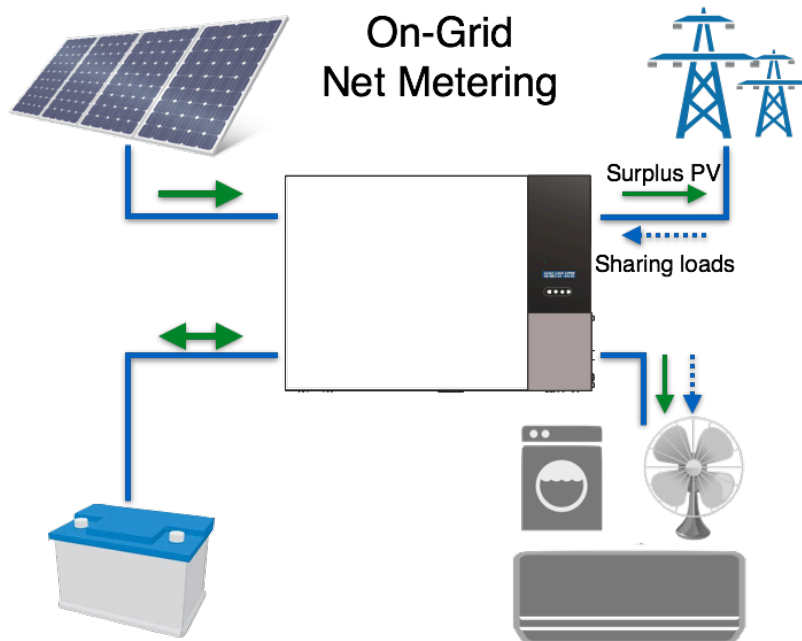
- All-in-One
- Higher Power. PF=1
- 96.5% High Efficiency
- Standalone/Grid Interactive
- 100A Charging Current (6k)
- 200% Overload
- 2 Independent MPPT (6k)
- Net-metering & Self-use
- VRLA & LiFePO<sub>4</sub> Batteries
- USB Firmware Update
- High Temp. & Humidity
- Rack Mount (Optional)
- Parallel & 3-phase Operations
- Cloud monitoring (Optional)

## Operation Modes



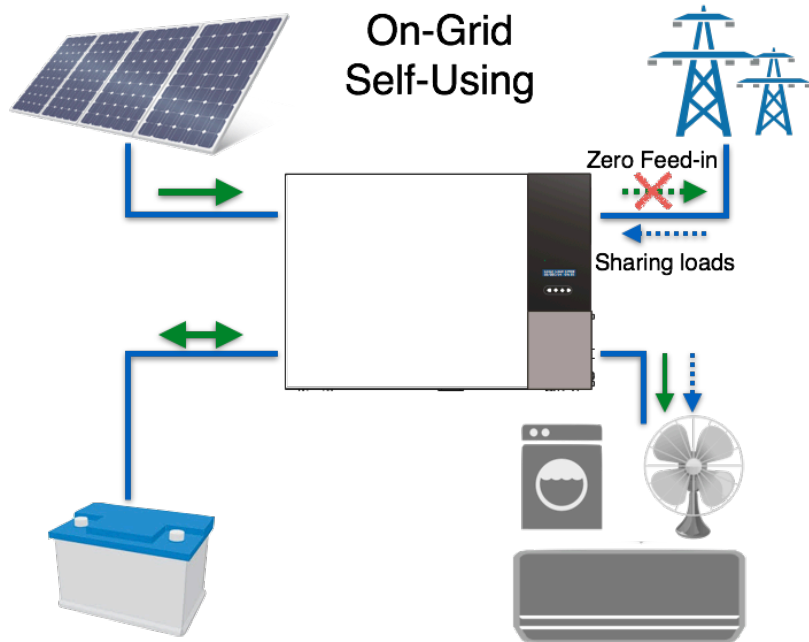
### Operations

- AC grid or genset acts as backup sources
- Inverter supplies loads from PV and/or batteries
- Surplus PV power is used to charge batteries
- Loads will be switched to AC input automatically while needed



### Operations

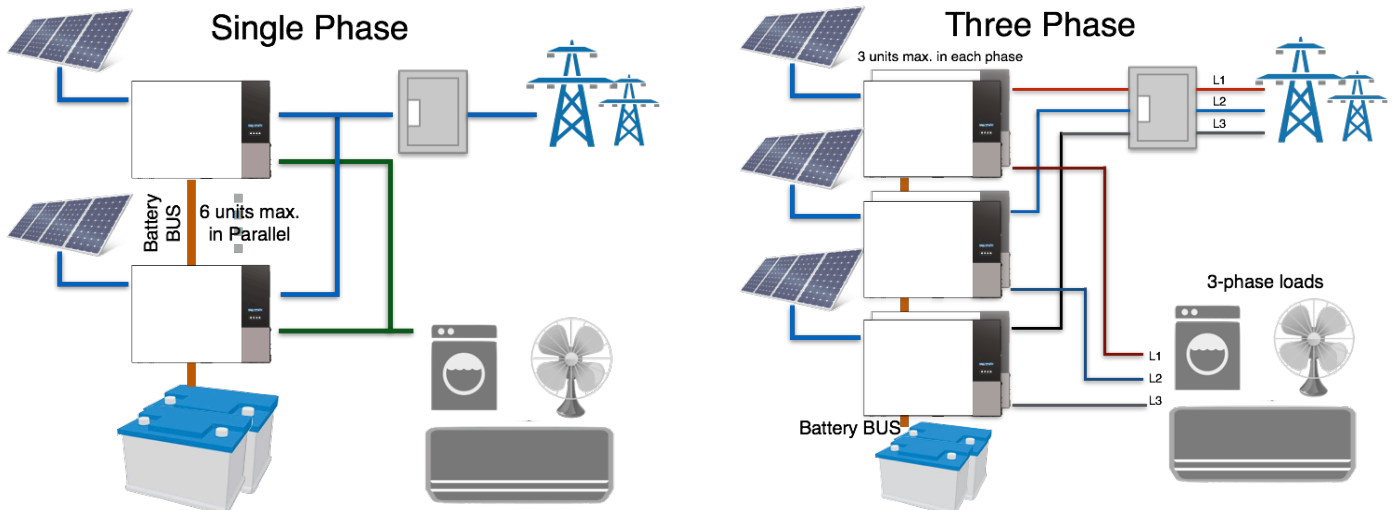
- Inverter output is physically connected to grid AC
- Inverter supplies loads from PV and/or batteries
- Extra PV power is used to charge batteries and/or feeding grid
- Loads are powered by inverter and/or grid AC



### Operations

- Inverter output is physically connected to grid AC
- Inverter supplies loads from PV and/or batteries
- Extra PV power is used to charge batteries
- Zero feeding to grid
- Loads are powered by inverter and/or grid AC

### Parallel and 3-phase Systems



### Features

- Up to 6 units in parallel for increasing load capability
- Build up a 3-phase system by using maximum 9 units
- Share same battery bank
- Off-grid or on-grid mode

## Specifications

Model		PH-3600N-D	PH-5000N-D	PH-6000N-D
<b>Input (PV)</b>				
	Unit			
Max. PV Power	W <sub>p</sub>	3600	5000	6000
MPPT Range <sup>1</sup>	V	150 ~ 500	150 ~ 450	150 ~ 450
Max. DC Voltage	V	550	500	500
Max. Current	A	10	20	10 x 2
MPP Tracker Number		1	1	2
<b>Input (AC)</b>				
	Unit			
Nominal Voltage, Frequency	V/Hz	230, 50/60		
Maximum Current	A	15	25	25
<b>Battery</b>				
Nominal Voltage	V	48	48	48
Max. Charging I from PV	A	60	60	100
<b>Output (AC)</b>				
Nominal Power	W/VA	3000	5000	5000
Nominal Voltage, Frequency	V/Hz	230, 50/60		
Over-Load Cap.	%	200		
Waveform		Pure Sinusoidal		
Regulation (Linear Load)	%	± 5		
<b>General</b>				
Temperature Range <sup>2</sup>	°C	-20 ~ 55		
Environment		Indoor		
Cooling		Forced Air-Cooling		
Humidity	%	0~95, non-condensing		
Battery Type		VRLA or LiFePO <sub>4</sub>		
Parallel & 3-phase Operation		Yes	No	Yes
<b>Interface &amp; Mechanical</b>				
Display		16 x 2 Text Display		
Ccommunication Interface		RS485, USB and Generator remote control		
Dimension (W / H / D)	mm	580/408/168	580/408/168	580/408/168
Weight	kg	22	23.8	24.2
<b>Certificate and Regulation</b>				
Safety		IEC 62109-1 & IEC 62109-2		
EMC		IEC/EN 61000-3-2	IEC/EN 61000-3-11	
		IEC/EN 61000-3-3	IEC/EN 61000-3-12	
		IEC/EN 61000-6-2, IEC/EN 61000-6-4		
Grid Monitoring		VDE 0126-1-1/A1, IEEE 519 CEA (2013), IEC 61727, IEC 62116		

Note: 1. The input power may be reduced for  $V_{PV} < 265V$  2. AC power may need to be reduced for  $T > 40^{\circ}C$  3. Specifications are subject to change without prior notice.

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