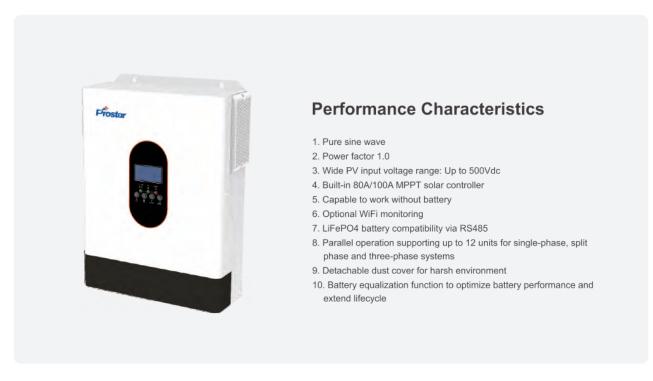


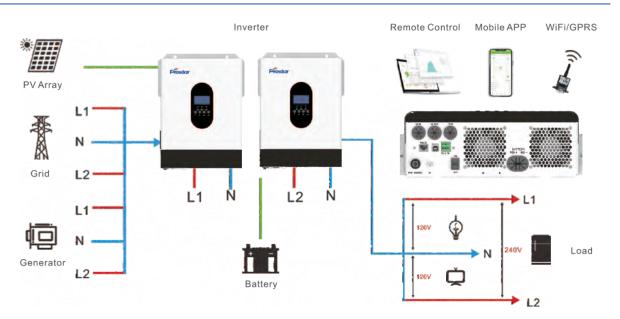
## PLV SERIES OFF GRID HYBRID SOLAR INVERTER

3kW-5kW 110V/120VAC Output



PLV series off-grid hybrid solar inverter is a multifunctional device that effectively integrates the functions of an inverter, mppt solar charger, and battery charger. It is engineered to deliver uninterrupted power in a compact and portable design. Users can effortlessly configure and operate it through the intuitive LCD display, enabling adjustments to battery charging current, AC/Solar charger priority, input voltage acceptance, all of which can be customized to suit various applications. Especially, this solar inverter can deliver 110V or 120V output and has the capability to be paralleled with another unit, facilitating the creation of a split-phase 110V/220V or 120V/240V system.

## **Application Diagram**



## **Technical Specifications**

MODEL	PLV3K-48PL	PLV5K-48PL
CAPACITY	3KVA/3KW	5KVA/5KW
Dimensions,DxWxH(mm)	448x295x105	450x300x130
Package Dimensions,DxWxH(mm)	540x390x210	540x390x210
Net Weight(Kg)	9.5	12
Parallel Capability	YES, 12 Units	
Split phase operation	YES, need at least 2 units parallel	
INPUT		
Nominal Voltage	120VAC	
Acceptable Voltage Range	95-140VAC(For personal Computer);65-140VAC(For Home Appliances)	
Frequency	50/60 Hz(Auto sensing)	
ОИТРИТ		
Nominal Voltage	110/120VAC±5%	
Surge Power	6000VA	10000VA
Frequency	50/60HZ	
Waveform	Pure Sine wave	
Transfer Time	10ms(For personal Computer);20ms(For Home Appliances)	
Peak Efficiency(PV to INV)	96%	
Peak Efficiency(Battery to INV)	93%	
Overload Protection	5s@>=150% load; 10s@110%~ 150% load	
Crest Factor	3:1	
Admissible Power FACTOR	0.6-1 (inductive or capacitive)	
BATTERY		
Battery Voltage	48VDC	
Floating Charge Voltage	54VDC	
OverCharge Protection	63VDC	
Charging Method	CC/CV	
Solar Charger & AC Charger		
Max.PV Array Power	5000W	6500W
Solar Charger TYPE	MPPT	
Max.PV Array Open Circuit Voltage	500VDC	
PV Array MPPT Voltage Range	120VDC-450VDC	60VDC-500VDC
Max.Solar Input Current	18A	27A
Max.Solar Charge Current	80A	100A
Max.AC Charge Current	60A	60A
Max.Charge Current	80A	100A
COMMUNICATION		
Communication Interface	USB/RS232/I	Dry-contact
ENVIRONMENT		
Operating Temperature Range	(-10°C to 50°C)	
Storage temperature	(-15°C to 50°C)	
Humidity	5% to 95% Relative Humidity(Non-condensing)	

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