

PIE PRO SERIES OFF GRID HYBRID SOLAR INVERTER

1.5kW/2.5kW/3.5kW 220VAC/230VAC

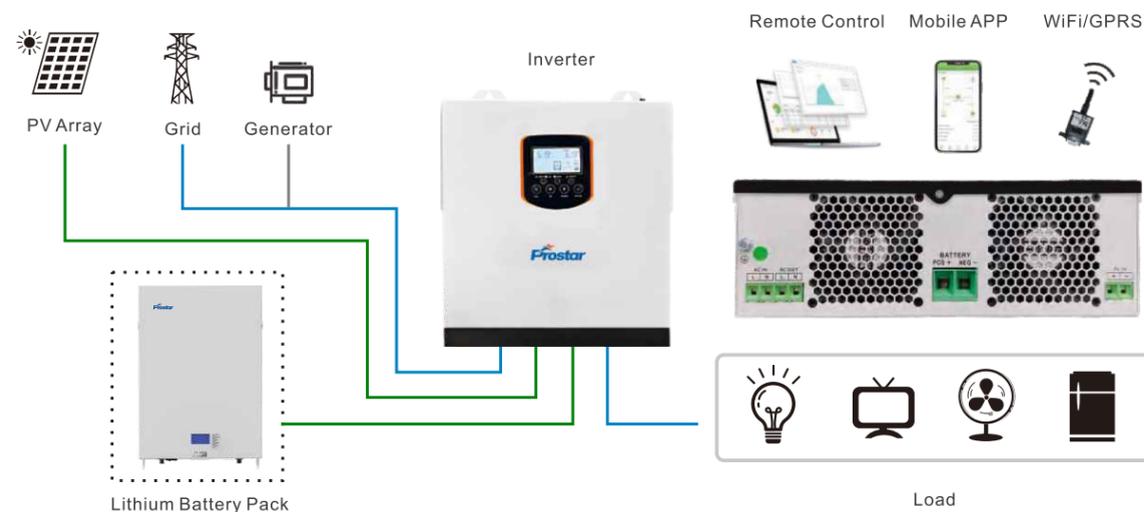


Performance Characteristics

1. Battery wake-up function
2. Pure sine wave
3. PV input 500Vdc max
4. Built-in MPPT 60A-100A
5. Detachable dust cover for harsh environment
6. Wifi remote monitoring optional
7. Support multiple output priority: UTL, SOL, SBU, SUB
8. EQ function to optimize battery performance and extend lifecycle

This pure sine wave solar inverter delivers clean, stable power, perfect for sensitive electronics and equipment. It can automatically activate the battery from a dormant state, ensuring it's always ready when needed. Supporting PV input voltage up to 500Vdc, it offers great flexibility in solar panel configurations. Equipped with 60A-100A MPPT charge controller, it optimizes the charging efficiency of your solar system. Designed for harsh environments, it features a detachable dust cover for enhanced durability and longevity. It supports UTL, SOL, SBU, and SUB priority modes for versatile energy management. Combining innovative technology with user-friendly features, it is an ideal choice for both residential and commercial applications.

Application Diagram



Technical Specifications

MODEL	PIE1.5K-12-PRO	PIE1.5K-24-PRO	PIE2.5K-24-PRO	PIE3.5K-24-PRO
Capacity	1500VA/1500W	1500VA/1500W	2500VA/2500W	500VA/3500W
Dimensions, D×W×H(mm)	330×278×98			
Package Dimensions, D×W×H(mm)	400×365×174			
Net Weight(Kg)	3.8	3.8	3.95	3.95
Parallel Capability	NO	NO	NO	NO
Lithium Battery Activation	NO	NO	NO	NO
Lithium Battery Communication	NO	NO	NO	NO
Battery Wake-up Function	YES	YES	YES	YES
INPUT				
Nominal Voltage	220/230VAC			
Acceptable Voltage Range	170-280VAC(For Personal Computer); 90-280VAC(For Home Appliances)			
Frequency	50/60 Hz(Auto Sensing)			
OUTPUT				
Nominal Voltage	220/230VAC±5%			
Surge Power	3000VA	3000VA	5000VA	7000VA
Frequency	50/60 Hz			
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@>=140% Load;10s@100%~140% Load			
Crest Factor	3:1			
Admissible Power Factor	0.6~1 (Inductive or Capacitive)			
BATTERY				
Battery Voltage	12VDC		24VDC	
Floating Charge Voltage	13.5VDC		27VDC	
Over Charge Protection	16.5VDC		32VDC	
Charging Method	CC/CV			
SOLAR CHARGER & AC CHARGER				
Solar Charger TYPE	MPPT			
Max.PV Array Power	2000W	2000W	3000V	4000W
Max.PV Array Open Circuit Voltage	500VDC			
PV Array MPPT Voltage Range	30VDC~500VDC			
Max.Solar Input Current	15A			
Max.Solar Charge Current	100A	60A	100A	100A
Max.AC Charge Current	60A	60A	60A	60A
Max.Charge Current(AC+PV)	100A	60A	100A	100A
PHYSICAL				
Communication Interface	RJ45 For WiFi			
ENVIRONMENT				
Operating Temperature Range	10°C to 55°C			
Storage Temperature	-15°C~60°C			
Humidity	5% to 95% Relative Humidity (Non-condensing)			