

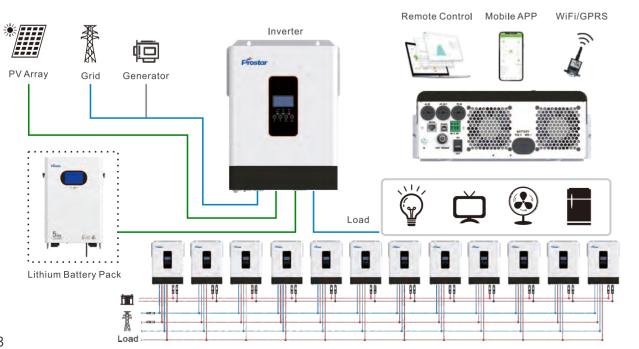
PIM SERIES OFF GRID HYBRID SOLAR INVERTER

5.5kW/6.2kW Parallel 220VAC/230VAC



The PIM 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. The inverter boasts a user-friendly LCD display, making it easy for users to configure settings. These settings include battery charging current, AC/Solar charger priority, and input voltage acceptance, all of which can be customized to suit various applications.

Application Diagram



Technical Specifications

| MODEL | PIM5.5K-48PL | PIM6.2K-48PL |
|-----------------------------------|--|-------------------------|
| Capacity | 5.5KVA/5.5KW | 6.2KVA/6.2KW |
| Dimensions,DxWxH(mm) | 448x295x120 | 450x300x130 |
| Package Dimensions,DxWxH(mm) | 560x375x190 | 540x390x210 |
| Net Weight(Kg) | 10 | 12 |
| Parallel Capability | YES,12 Units | |
| _ithium Battery Activation | No | YES(By PV or Utility) |
| ithium Battery Communication | YES(RS485) | |
| NPUT | | |
| Nominal Voltage | 220/230VAC | |
| Acceptable Voltage Range | 170-280VAC(For Personal Computer);90-280VAC(For Home Appliances) | |
| requency | 50/60 Hz(Auto Sensing) | |
| ОИТРИТ | | |
| Nominal Voltage | 220/230VAC±5% | |
| Surge Power | 11000VA | 12400VA |
| Frequency | 50/60Hz | |
| Waveform | Pure Sine Wave | |
| Fransfer Time | 10ms(For Personal Computer);20ms(For Home Appliances) | |
| Peak Efficiency(PV to INV) | 96% | 94% |
| Peak Efficiency(Battery to INV) | 93% | 92% |
| Over load 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 | |
| Over Charge Protection | 63VDC | |
| Charging Method | CC/CV | |
| SOLAR CHARGER & AC CHARGER | | |
| Solar Charger Type | MPPT | |
| Max.PV Array Power | 5500W | 6500W |
| Max.PV Array Open Circuit Voltage | 500VDC | |
| PV Array MPPT Voltage Range | 60VDC-450VDC | |
| Max.Solar Input Current | 18A | 27A |
| Max.Solar Charge Current | 100A | 120A |
| Max.AC Charge Current | 60A | 80A |
| Max.Charge Current | 100A | 120A |
| COMMUNICATION | | |
| Communication Interface | RS232/RS485/Dry Contact | RS232/RS485/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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