



IPI COMPLETE POWER SOLUTION FOR ENERGY STORAGE AND DISTRIBUTION



Pure Sine Wave
Output



High DC to DC
Energy Efficiency



Programmable
AC/PV Source Priority



Built-in MPPT
Charge Controller



LCD Status
Display



Generator
Compatible

The Invert Power International (IPI) OFF-Grid MPPT Solar Inverter is designed with built-in solar charger and AC charger for all-in-one convenience and versatility

Ideal for home, business and remote locations, the IPI Inverter series generates renewable electricity from solar energy, and provides Pure Sine Wave AC output for connected equipment. The device can store the energy into external batteries as a backup power, providing seamless power supply during power failures. In addition, the power source for connected devices can be prioritized between solar energy, utility power, and batteries to satisfy different needs. The featured high energy efficiency also reduces energy wastes and ensures optimal system operation. The IPI inverters can achieve 98% high tracking efficiency by adopting Maximum Power Point Tracking (MPPT) technology to yield the most power available. The IPI inverter series also features an LCD display to clearly show the real-time load monitoring and system information.

SERIES FEATURES

- Pure Sine Wave Output
- Wide PV Input
- High DC to DC Energy Efficiency
- Programmable AC/PV Source Priority
- Built-in MPPT Charge Controller
- Configurable AC/Solar Charger priority
- Seamless Backup Power Supply
- BatteryLESS Operation
- Fan Cooling Convection
- LCD Status Display
- LED Status Indicator
- Generator Compatible
- AC Bypass Input/Output
- Built-in USB/ RS232/ WIFI Interface
- WiFi Remote Monitoring
- Overload/ Over temperature/ short circuit protection



Ideal OFF-Grid Hybrid Inverter

Programmable Power Source Priority function.
More Flexible, More Independent for energy usage and storage.



Smart



Efficient



Quality



User Friendly



Cost Effective

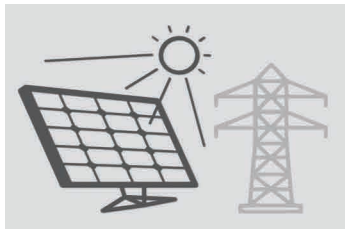
Feed-in priority

IPI OFF-Grid inverter series, an intelligent design for more options to utilize Solar Energy, it is not just conventional PV inverter Feed-in only, but also energy storage and Loads supporting.

Load Output priority/ Load shifting

Depend on your cost demand, IPI can offer you a difference choice for self-consumption or load shifting automatically via battery banks and/or Solar power without utility power to save your money and/or reduce energy cost.

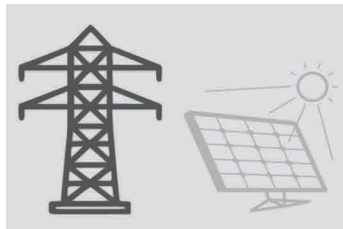
BATTERY CHARGING MODES:



■ Solar First

Solar energy will charge the battery as first priority

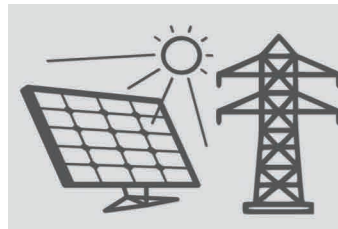
Utility will charge battery only when solar energy is not available



■ Utility First

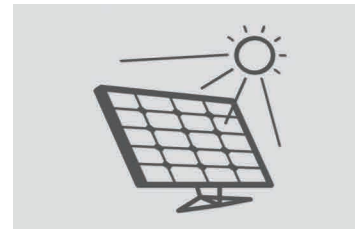
Utility will charge battery as first priority

Solar energy will charge the battery only when utility power is not available



■ Solar & Utility

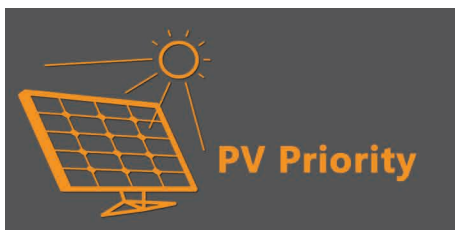
Both solar energy and utility will synchronously charge the battery



■ Solar Only

Solar energy will be the only source of battery charging.

LOAD OUTPUT MODES:



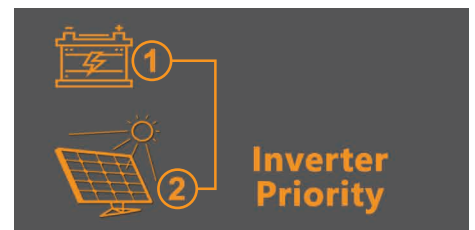
■ Solar First

Loads are powered by the PV modules



■ Utility / Generator First

Utility or generator power the load



■ Inverter Mode

Battery power loads first.
The utility/generator supplies loads when battery is under voltage



TECHNICAL SPECIFICATIONS

| Model | 2kW | 3.2kW | 5.2kW |
|--|---|--------------|--------------|
| RATED POWER | 2000VA/2000W | 3200VA/3200W | 5200VA/5200W |
| INPUT | | | |
| Voltage | 230 VAC | | |
| Selectable Voltage Range | 170-280 VAC (For Personal Computers) | | |
| | 90-280 VAC (For Home Appliances) | | |
| Frequency Range | 50 Hz/60 Hz (Auto Sensing) | | |
| OUTPUT | | | |
| AC Voltage Regulation (Batt. Mode) | 230VAC ± 5% | | |
| Surge Power | 4000VA | 6400VA | 10400VA |
| Efficiency (Peak) PV to INV. | 97% | | |
| Efficiency (Peak) Battery to INV. | 94% | | |
| Transfer Time | 10ms (For Personal Computers); 20ms (For Home appliances) | | |
| Waveform | Pure Sine Wave | | |
| BATTERY & AC CHARGER | | | |
| Battery Voltage | 24 VDC | 24 VDC | 48 VDC |
| Floating Charge Volage | 27 VDC | 27 VDC | 54 VDC |
| Overcharge Protection | 33 VDC | 33 VDC | 63 VDC |
| Maximum Charge Current | 40 A | 80 A | 60 A |
| SOLAR CHARGER | | | |
| Maximum PV Array Power | 2000W | 4000W | 6000W |
| MPPT Range @ Operating Voltage | 120 ~ 450 VDC | | |
| Maximum PV Array Open Circuit Voltage | 500 VDC | | |
| Maximum Charge Current | 60 A | 80 A | 80 A |
| Maximum Efficiency | 98% | | |
| MANAGEMENT & COMMUNICATIONS | | | |
| LCD Information | Yes | | |
| USB/RS232 | Yes | | |
| WIFI | Yes | | |
| Certifications | IEC61683, IEC62109, CE | | |
| PHYSICAL | | | |
| Dimension, D x W x H (mm) | 100 x 300 x 440 | | |
| Net Weight (kgs) | 8 | 9 | 10 |
| OPERATING ENVIRONMENT | | | |
| Humidity | 5% to 95% Relative Humidity (Non-condensing) | | |
| Operating Temperature | 0°C - 55°C | | |
| Storage Temperature | -15°C - 60°C | | |