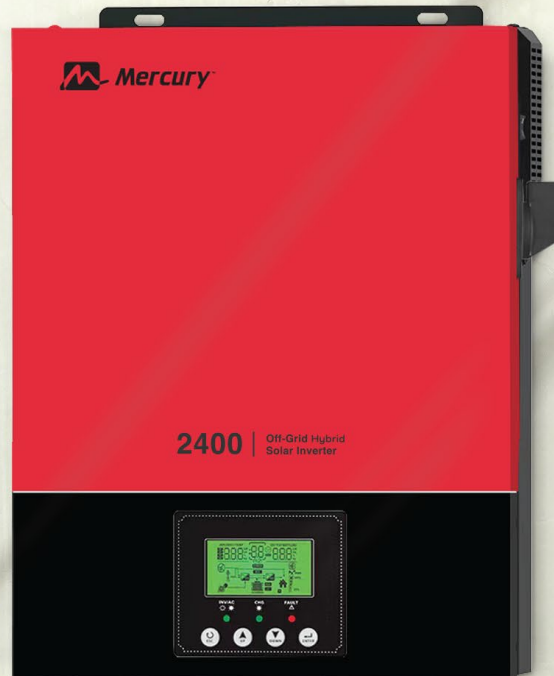


OFF-GRID HYBRID
**SOLAR
INVERTER**
1500 / 2400
PF 1.0



FEATURES

- Pure sine wave inverter & ECO friendly
- Configurable input voltage range for home appliances and personal computers.
- Configurable battery charging current based on applications via LCD setting.
- Configurable AC/Solar Charger priority.
- Compatible to mains voltage or Generator power.
- Auto restart while AC is recovering & Cold start function.
- Overload/ Over temperature & Short circuit protection.
- Smart battery charger design for optimized battery performance.
- ON / OFF Bypass Switch

SOLAR INVERTER

1500 / 2400 PF 1.0

SPECIFICATIONS

| MODEL | 1500 | 2400 |
|--|---|---|
| LINE MODE | | |
| Rated Output Power | 1500VA / 1500W | 2400VA / 2400W |
| Input Voltage Waveform | Sinusoidal (utility or generator) | |
| Nominal Input voltage | 230Vac | |
| Low Loss voltage | 170Vac±7V (UPS); 90Vac±7V (Appliances) | |
| Low Loss Return voltage | 180Vac±7V (UPS); 100Vac±7V (Appliances) | |
| High Loss Voltage | 280Vac±7V | |
| High Loss Return Voltage | 270Vac±7V | |
| Max AC Input Voltage | 300Vac | |
| Nominal Input Frequency | 50Hz / 60Hz (Auto detection) | |
| Low Loss Frequency | 40±1Hz | |
| Low Loss Return Frequency | 42±1Hz | |
| High Loss Frequency | 65±1Hz | |
| High Loss Return Frequency | 63±1Hz | |
| Output Short Circuit Protection | Circuit Breaker | |
| Efficiency (Line Mode) | >95% (Rated R load, battery full charged) | |
| Transfer Time | 10ms typical (UPS) 20ms typical (Appliances) | |
| INVERTER MODE | | |
| Rated Output Power | 1500W | 2400W |
| Output Voltage Waveform | Pure Sine Wave | |
| Output Voltage Regulation | 230Vac±5% | |
| Output Frequency | 50Hz | |
| Peak Efficiency | 91% | |
| Overload Protection | 5s@ ≥150% load; 10s@ 110%-150% load | |
| Surge Capacity | 2* rated power for 5 seconds | |
| Nominal DC Input Voltage | 12Vdc | 24Vdc |
| Cold Start Voltage | 15.5Vdc | 23Vdc |
| Low DC Warning Voltage | @load <50%: 11.0Vdc, @load ≥50%: 10.5Vdc | @load <50%: 22.0Vdc, @load ≥50%: 21.0Vdc |
| Low DC Warning Return Voltage | @load <50%: 11.5Vdc, @load ≥50%: 11.0Vdc | @load <50%: 22.5Vdc, @load ≥50%: 22.0Vdc |
| Low DC Cut-Off Voltage | @load <50%: 10.2Vdc, @load ≥50%: 9.6Vdc | @load <50%: 20.5Vdc, @load ≥50%: 20.0Vdc |
| High DC Recovery Voltage | 14Vdc | 32Vdc |
| High DC Cut-off Voltage | 16Vdc | 33Vdc |
| No Load Power Consumption | <25W | <30W |
| CHARGE MODE - UTILITY CHARGING MODE | | |
| Charging Algorithm | 3-Step | |
| AC Charging Current (Max) | 60Amp | 60Amp |
| Bulk Charging Voltage | Flooded Battery: 14.6, AGM / Gel Battery: 14.1 | Flooded Battery: 29.2, AGM / Gel Battery: 28.2 |
| Floating Charging Voltage | 13.5Vdc | 27Vdc |
| CHARGE MODE - MPPT SOLAR CHARGING MODE | | |
| Max. PV Array Power | 2000W | 3000W |
| Nominal PV Voltage | 240Vdc | |
| PV Array MMPT Voltage Range | 90~430Vdc | |
| Max.PV Array Open Circuit Voltage | 450Vdc | |
| Max Charging Current | 80Amp | |
| (AC charger plus solar charger) | | |
| Dimension (D*W*H) / Net Weight | 348X270X95 / 4 Kgs | 348X270X95 / 5 Kgs |
| Safety Certification | CE | |
| Operating Temperature Range | -10°C~ 50° C | |
| Storage temperature | -15°C~ 60°C | |
| Humidity | 5% to 95% Relative Humidity (Non-condensing) | |

OFF-GRID HYBRID

SOLAR INVERTER**1500 / 2400** PF 1.0**Basic System Architecture**

The following illustration shows basic application of this Inverter/ Charger. It also includes following devices to have a complete running system:

- Generator or Utility
- PV Modules

Consult with your system integrator for other possible system architectures depending on your requirements.

The inverter can power all kind of appliances in home or office environment, including motor-type appliances such as Tube light, Fan, Refrigerator and Air Conditioner.

