



SMART SOLAR SERIES FEATURES

- 1000VA~5000VA pure sine wave inverter
- Built-in MPPT solar charge controller
- Selectable input voltage range for home appliances and personal computers
- Selectable charging current based on applications
- Configurable AC/Solar input priority via LCD setting
- Compatible to mains voltage or generator power
- Auto restart while AC is recovering
- Overload and short circuit protection
- Smart battery charger design for optimized battery performance
- Cold start function

PARALLEL FEATURE

Parallel feature available for up to 9 units for INV-S3024PL / S4048PL / S5048PL / S5024PL model only (parallel card and cable are optional)

APPLICATIONS

- Home Equipment
- Office Equipment
- Lighting Systems
- Professional Workstations



SMART SOLAR INVERTER SPECIFICATION

| MODEL | INV-S1012 | INV-S2024 | INV-S3024 | INV-S3024PL | INV-S4048PL | INV-S5048PL | INV-S5024PL |
|---------------------------------------|--|-------------------------------------|---------------|-------------------------------------|-------------------------------------|-----------------|-------------------------------------|
| CAPACITY | 1000VA/1000W | 2000VA/2000W | 3000VA/3000W | 3000VA/2400W | 4000VA/4000W | 5000VA/5000W | 5000VA/4000W |
| INPUT | | | | | | | |
| Voltage | 230 VAC | | | | | | |
| Voltage Range (Selectable) | 170~280 VAC (for personal computers), 90~280 VAC (for home appliances) | | | | | | |
| Frequency Range | 50 Hz / 60 Hz (auto sensing) | | | | | | |
| OUTPUT | | | | | | | |
| AC Voltage Regulation (Battery Mode) | 230 VAC ± 5% | | | | | | |
| Surge Power | 2000 VA | 4000 VA | 6000 VA | 6000 VA | 8000 VA | 10000 VA | 10000 VA |
| Efficiency (Peak) | 93% | 93% | 93% | 90% | 93% | 90% | 90% |
| Transfer Time | 10ms (for PC), 20ms (for home appliances) | | | | | | |
| BATTERY | | | | | | | |
| Battery Voltage | 12 VDC | 24 VDC | 24 VDC | 24 VDC | 48 VDC | 48 VDC | 24 VDC |
| Floating Charge Voltage | 13.5 VDC | 27 VDC | 27 VDC | 27 VDC | 54 VDC | 54 VDC | 27 VDC |
| Overcharge Protection | 15.5 VDC | 31 VDC | 31 VDC | 30 VDC | 60 VDC | 66 VDC | 30 VDC |
| Maximum AC Charge Current | 20 A | 30 A | 30 A | 60 A | 60 A | 80 A | 60 A |
| SOLAR CHARGER | | | | | | | |
| Maximum PV Array Power | 500 W | 600 W | 600 W | 1000 W | 4000 W | 4500 W | 2000 W |
| MPPT Range @ Operating Voltage | 15 VDC~80 VDC | 30 VDC~66 VDC | 30 VDC~66 VDC | 30 VDC~80 VDC | 60 VDC~115 VDC | 120 VDC~430 VDC | 30 VDC~115 VDC |
| Maximum PV Array Open Circuit Voltage | 102 VDC | 75 VDC | 75 VDC | 100 VDC | 145 VDC | 450 VDC | 145 VDC |
| Maximum Charging Current | 40 A | 25 A | 25 A | 40 A | 80 A | 80 A | 80 A |
| Maximum Efficiency | 98% | | | | | | |
| Standby Power Consumption | 2W | | | | | | |
| PHYSICAL | | | | | | | |
| Dimension (D x W x H) (mm/in) | 95 x 240 x 316 / 3.7 x 9.4 x 12.4 | 100 x 272 x 355 / 3.9 x 10.7 x 14.0 | | 100 x 272 x 385 / 3.9 x 10.7 x 15.2 | 120 x 295 x 468 / 4.7 x 11.6 x 18.4 | | 180 x 310 x 475 / 7.1 x 12.2 x 18.7 |
| Net Weight (kg/lb) | 5.2 / 11.5 | 7.0 / 15.4 | 7.4 / 16.3 | 7.5 / 16.5 | 12.5 / 27.6 | 11 / 24.3 | 12.5 / 27.6 |