



Micro Inverter

Sunny 2000
Sunny 2400
Sunny 2800

Description

With the output power up to 2800VA, AVT New Energy micro inverter Sunny series rank the highest in the field of 4-in-1 micro inverters. Each micro inverter is able to connect up to 4 panels, with independent MPPT which can maximize the power efficiency up to 99.8%.

The integrated 2.4G wireless solution provides easier communication with the cloud to monitor the system working status and offer remote firmware upgrade.

Features

- ☉ Maximum power output up to 2800 VA in a single unit
- ☉ Compliance with: EN 50549-1: 2019, EN 50549-2: 2019, EN61000-6-1:2007, EN61000-6-3:2007+A1:2011+AC2012, IEC/EN 62109-1/2010, IEC/EN 62109-2/2011
- ☉ High reliability: NEMA 3R (IP65) enclosure: 6000V surge protection
- ☉ Independent MPPT and monitoring ensure high power transfer efficiency and easier maintenance
- ☉ 4-in-1 design brings faster installation and reduces system cost
- ☉ 2.4G wireless solution provides easier communication for system monitoring and setting

Technical Specification

| Model | Sunny 2000 | Sunny 2400 | Sunny 2800 |
|--|---|---------------------------|----------------------------|
| DC INPUT | | | |
| Maximum input power (W) | 4*625 | 4*750 | 4*875 |
| Maximum input voltage (V) | | 65 | |
| MPPT input range (V) | | 16 to 60 | |
| Inverter starting voltage (V) | | 22 | |
| Maximum input current (A) | 4*20 | 4*23 | 4*27 |
| Maximum input short circuit current (A) | 4*23 | 4*28 | 4*32 |
| Number of MPPT | | 4 | |
| AC OUTPUT | | | |
| Maximum output power (VA) | 2000 | 2400 | 2800 |
| Rated output current (A) | @120V 16.6A @230V 8.7A | @120V 20A @230V 10.5A | @120V 23.5A @230V 12.2A |
| Nominal Output Voltage Range (V) | 100-135 for 120V AC (Application area: such as Japan, North America, etc.) or 180-275 for 230V AC (Application area: such as Europe) | | |
| Nominal Frequency Range (Hz) | 45 to 55 for grid with 50Hz 55 to 60 for grid with 60Hz | | |
| Power Factor | > 0.99 default 0.95 leading...0.95 lagging | | |
| Total harmonic distortion (THD) | <3% | | |
| Maximum number of connections per branch | @120V 3PCs @230V 6Pcs | @120V 2 PCs @230V 4Pcs | @120V 2 PCs @230V 4Pcs |
| Efficiency | | | |
| CEC peak efficiency | 95.7% | | |
| Nominal MPPT efficiency | 99.8% | | |
| Night power consumption (mW) | 50 | | |
| Mechanical Data | | | |
| Ambient temperature range (°C) | -40 to +60 | | |
| Dimensions (L × W × H mm) | 370×300×41.6 | | |
| Weight (kg) | 3.16 | | |
| Waterproof level | Outdoor NEMA 3R (IP65) | | |
| Cooling | Natural convection (no fans) | | |
| Features | | | |
| Communication connectivity | Wifi 2.4G | | |
| Power delivery mode | Reverse transmission, load priority | | |
| Monitoring | Tuya Cloud | | |
| Compliance | EN 50549-1: 2019, EN 50549-2: 2019, EN61000-6-1:2007, EN61000-6-3:2007+A1:2011+AC2012, IEC/EN 62109-1/2010, IEC/EN 62109-2/2011 | | |
| Warranty | 5 years | | |