

## INTRODUCTION

Ambient solar off-Grid solar inverter are designed on the basis of solar energy use for uninterrupted and safe power supply to household appliances, computer peripherals and communication equipments etc. Our all solar inverters are compatible with available state electricity supply also.

Off-Grid Solar Inverter has the function of energy saving, conservation and environment protection.

## Features

- ★ Multi-setting
  - \* PV priority mode or AC priority mode
  - \* Choose the charging current based on the configured capacity of the battery.
- ★ High reliability : Double MCU digital control
  - \* Independent PPI ( Power Point Integrated ) Control Microprocessor system.
  - \* Independent Inverter Microprocessor control system.
- ★ Isolated and pure sine wave technology.
- ★ LED display.
- ★ Wide input range.
- ★ High-speed synchronous conversion.
- ★ Friendly alarm system,
- ★ Online protection function.
- ★ Frequency auto adaptive.



## Technical Data

Model				
Power	400VA/300W	650VA/520W	850VA/680W	1250VA/1000W
Battery Voltage	12Vdc	12Vdc/24Vdc	12Vdc	24Vdc
Working mode	PV priority/AC priority			
PV				
Input Voltage range	12Vdc-25Vdc	12Vdc-25Vdc(12V) 24Vdc-45Vdc(24V)	12Vdc-45Vdc	24Vdc-45Vdc
Suggested Voltage range (Vmp)	15Vdc-17.8Vdc	15Vdc-17.8Vdc(12V) 30Vdc-36Vdc(24V)	30Vdc-36Vdc	30Vdc-36Vdc
PV current (Imp)	≤20A	≤40A		≤60A
Max. charge current	5A/10A/20A	10A/20A/30A/40A		

Conversion efficiency	≥ 98%		
Display			
Panel Indicator	LED		
AC mode			
Input Voltage range	100/110/120/220/230/240VAC±25%(customized)		
Input frequency range	45 - 65 Hz (Automatically transfer to inverter power when over frequency)		
Output voltage precision	100/110/120/220/230/240VAC±10%		
Input PF. (AC/DC)	≥ 98%		
Charge current	12A max		
Efficiency (Mains mode)	≥ 96%		
Overload	110% 255s transfer to bypass model; 120% 60s transfer to bypass model; 150% 10s transfer to bypass model;		
Short circuit protection	Electronic		
Inverter mode			
Inverter output voltage	230 ± 1.5%		
Output frequency	50 Hz Constant + 0.2% frequency auto sense		
Wave form distortion	Linear load ≤ 2%		
PV-AC transfer time	5 ms typical value; Max. 8 ms		
Max. Efficiency	≥ 84.5%		
Inverter overload	110% 225s transfer to bypass model; 120% 60s transfer to bypass model; 150% 1s transfer to bypass model;		
Short circuit protection	Systems automatically Hibernate		
Alarm			
Mains abnormal	Automatic sound elimination after 40s		
Low battery	Yes		
Overload	Yes		
Others			
Surge protection	Optional		
Ambient temperature	0°C~40°C		
Ambient humidity	10%~ 90% (Non Condensed)		
Noise	≤ 40dB		
Dimension (WxDxH)mm	300 X 250 X 150	340 X 300 X 170	
Packing dimension (WxDxH)mm	330 X 180 X 130	380 X 340 X 210	
Weight (kg)	10 Kg	12 Kg	15 Kg
Packing weight (kg)	11 Kg	13 Kg	16 Kg

\*All specification subject to change without notice.

\*Custom-made specifications are acceptable.

Authorised Dealer

# Ambient Solar Pvt. Ltd.

3, B. S. I. D. C. COLONY, DR. RAMESHWAR DAYAL PATH, PATLIPUTRA PATNA - 800013

PH No. 0612-2267889, 2573981, 9835229964 (M) FAX- 2267889

E-MAIL : sales@ambientsolar.in, visit us : www.ambientsolar.in