# Hybrid Off Grid Solar Inverter

**BG Series (1KW-5.5KW)**

* Rated power : 1KW -5.5KW
* Pure sine wave solar inverter
* Output power factor 1
* High PV input voltage range
* Built-in 30/60/ 80A MPPT solar charger
* Battery equalization function to optimize battery performance and extend life cycle
* Built-in anti-dusk kit for harsh environment

**Features**



## Introduction

BG Series is a multi-functional inverter/charger, combining functions of inverter, solar charger and battery charger to offer uninterruptible power support in portable size. Its comprehensive LCD display offers user-configurable and easy-accessible button operation such as battery charging current, AC/solar charger priority, and acceptable input voltage based on different applications.

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| --- | --- | --- | --- | --- | --- | --- | --- |
| **MODEL** | | **BG1000** | **BG-2000** | **BG-3000** | **BG-4000** | **BG5000** | **BG5500** |
| Nominal Battery System Voltage | | 12/24VDC | | 24/48VDC | | | |
| INVERTER OUTPUT | Rated Power | 1000W | 2000W | 3000W | 4000W | 5000W | 5500W |
| Surge Power | 2000W | 4000W | 6000W | 8000W | 10000W | 11000W |
| Waveform | Pure Sine Wave | | | | | |
| AC Voltage Regulation (Batt.Mode) | (220VAC~240VAC)±5% | | | | | |
| Inverter Efficiency(Peak) | 93% | | | | | |
| Transfer Time | 10ms (For Personal Computers) 20ms (For Home Appliance) | | | | | |
| AC INPUT | Voltage | 230VAC | | | | | |
| Selectable Voltage Range | 170~280VAC(For pensonal computer) \ 90~280VAC(For Home Appliance) \ 184~253VAC(VDE4105) | | | | | |
| Frequency Range | 50Hz/60Hz(Auto sensing) | | | | | |
| BATTERY | Normal Voltage | 24VDC | | 48VDC | | | |
| Floating Charge Voltage | 27.4VDC | | 54.8VDC | | | |
| Overcharge Protection | 30VDC | | 60VDC | | | |
| SOLAR CHARGER  &  AC CHARGER | Maximum PV Array Open Circuit Voltage | 145VDC | | | | | |
| PV Array MPPT Voltage Range | 30~130VDC | | 64~130VDC | | | |
| Standby Power Consumption | 2W | | | | | |
| PV Input Power | 2000W | | 4000W | | | |
| Maximum Solar Charge Current | 30/60/80A | | | | | |
| Maximum Effciency | 98% | | | | | |
| Maximum AC Charge Current | 20A | | 20A | | | |
| Maximum Charge Current | 80A | | 100A | | | |
| MECHANICAL SPECIFICATIONS | Machine Dimensions(W\*H\*D)(mm) | 380\*266\*153 | | 380\*600\*153 | | | |
| Package Dimensions(W\*H\*D)(mm) | 449\*358\*230 | | 449\*680\*230 | | | |
| Net Weight(kg) | 10 | 11 | 13.3 | | | |
| Gross Weight(kg) | 11.7 | 12 | 16.4 | | | |
| OTHER | Humidity | 5% to 95% Relatiy Humidity (Non-condensing) | | | | | |
| Operating Temperature | 0°C ~55°C | | | | | |
| Storage Temperature | -15°C ~60°C | | | | | |

# Specification

## Back panel printing description Solar system connection

1. Input Voltage
2. Working Model
3. Output Voltage



SOLAR PANELS

LAPTOP

LIGHTING

AC OUTPUT

PRINTER

INVERTER

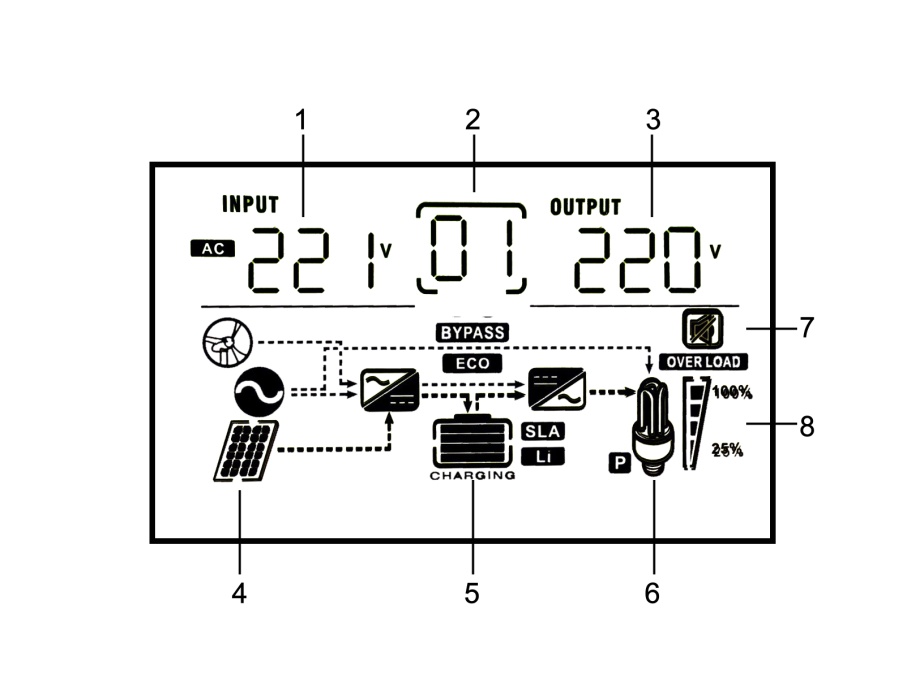
TV

AC INPUT

AIR CONDITIONING

GENERATOR

BATTERY

1. Solar Panel
2. Battery Status
3. Loading Application
4. Silent Model
5. Loading Status****