GridFree Micro AC Direct Inverter DC-AC 230V

GF-MAC230A
# TECHNICAL SPECIFICATION

<table>
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<th>Model</th>
<th>GF-MAC230A</th>
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## Input Data (DC)
- **Recommended Input Power (STC):** 250W (100Wp to 280Wp)
- **DC voltage operating range:** 20V~50V
- **MPPT Voltage Range:** 24V~40V
- **Maximum DC Current:** 10.4A

## Output Data (AC)
- **Rated AC Power @ 25°C:** 235W
- **Rated AC Current:** 1.02A
- **AC voltage Range:** 230V/184V~264V
- **AC frequency:** 50Hz/47Hz~51Hz
- **Power Factor:** >0.99
- **Current THD:** <3.5%
- **Maximum Units Per Branch:** 16

## Efficiency
- **Peak Inverter Efficiency:** 95.2%
- **CEC Weighted Efficiency:** 94.1%
- **Nighttime Power Consumption:** <170mW

## Mechanical Data
- **Enclosure Environmental Rating:** Outdoor - IP65/NEMA6
- **Operating Temperature Range:** -40°C~+65°C
- **Dimensions (WxHxD):** 230mm x 195mm x 35mm
- **Weight:** 2.44kg

## Features
- **Microinverter chain interconnection:** Only a string termination cable is required
- **PV Panel type:** Mono/Polycrystalline Si 60/72 cells *
- **PV Panel DC connector:** MC4
- **Communication:** PLCC with eGate/eLog unit
- **Compliance:** UL1741/IEEE1547 - CE - EN50438 - ENEL - VDE0126 - G83/1 - CQC - AS4777
- **Warranty:** 25 Years
What is Micro-Inverter?

Micro-Inverter is an innovative solution for solar installations. It directly converts the DC voltage solar power from PV-panels into standard AC grid voltage (230V/50Hz). The micro-inverter is usually mounted directly at the solar panel. The input (DC) is 20V to 50V. The power of micro-inverter is usually 250W. (The inverters bellow 1kW of power are in general called micro-inverters).

There are many good reasons why to use the micro-inverter at the photovoltaic installation.

Micro-Inverter is MICRO! Good ideas for you

With Micro-Inverter it is easy to make even very small installations. You can have a solar project with just ONE solar panel. This is not possible with the ordinary central inverters that usually have 1.5 kW or more power.

Now you can start from just one panel. This is the ideal solution for the GridFree projects.

http://www.ev-power.eu

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