



# **GridFree Micro AC Direct Inverter DC-AC 230V**



**GF-MAC230A**

# TECHNICAL SPECIFICATION

<b>Model</b>	GF-MAC230A
<b>Input Data (DC)</b>	
Recommended Input Power (STC)	250W (100Wp to 280Wp)
DC voltage operating range	20V~50V
MPPT Voltage Range	24V~40V
Maximum DC Current	10.4A
<b>Output Data (AC)</b>	
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
<b>Efficiency</b>	
Peak Inverter Efficiency	95.2%
CEC Weighted Efficiency	94.1%
Nighttime Power Consumption	<170mW
<b>Mechanical Data</b>	
Enclosure Environmental Rating	Outdoor - IP65/NEMA6
Operating Temperature Range	-40°C~+65°C
Dimensions (WxHxD)	230mm x 195mm x 35mm
Weight	2.44kg
<b>Features</b>	
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 below 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.

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<http://www.ev-power.eu>

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