

MAC250A-230-VDE



Longer Lifetime and Reliability (double lifetime)
No single-point failure with system availability of 99%

Maximised Energy Harvest (+25%) Reduced power loss with Shade, Dust or Debris

Quick Design and Plug and Play Installation (-40% cost) Improved safety no dangerous DC cabling No indoor bulky and noisy inverter unit

Internet 24h smart monitoring for each PV module

The INVOLAR MAC250 Micro-Inverter offers the latest technology in power inverters, it enables improved solar energy harvest, has increased reliability, greatly simplified installation with up to 40% reduction on installation costs and smart online power management system.

Each INVOLAR Micro-Inverter is individually connected to one PV module in the solar panel array. In the event of single panel failure the remaining micro-inverters continue to produce power.

By performing Maximum Power Point Tracking (MPPT) at the PV module level, INVOLAR Micro-Inverter minimizes the effects of shading, debris, snow, slight panel orientation differences and mismatches or PV module aging, thus improving the system's energy harvest and customer income by up to 25% over the system lifetime.

Technical Specifications

Model	MAC250A-230-VDE
Input Data (DC)	
Maximum DC Power	250W
Maximum DC Voltage	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~265V (*See Appendix below)
AC frequency Range	50Hz/47.5Hz~50.2Hz (*See Appendix below)
Power Factor	>0.99
Current THD	<3%
DC/AC Power's Temperature Coefficient	-0.5%/℃
Maximum Units Per Branch	15
Efficiency	
Peak Inverter Efficiency	95.0%
CEC Weighted Efficiency	94.0%
Nighttime Power Consumption	<100mVV
Mechanical Data	
Enclosure Environmental Rating	Outdoor - IP65
Operating Temperature Range	-40°C∼+65°C
Dimensions (WxHxD)	230mmX138mmX35mm
Weight	2.4kg
Features	
Communication	PLCC
Compliance	VDE126-1-1 CE
Warranty	15 Years

Appendix- *Adjustments to suit the following Countries.	
Austria	Greece
Belgium	Luxembourg
Bulgaria	Poland
Croatia	Portugal
Czech Republic	Netherlands
France	Romania
Germany	Switzerland

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