

MAC250A - Europe



Increased lifetime and reliability (double lifetime)
No single-point failure with system availability of 99%

Maximized energy harvest (Average +16%)
Reduced power loss with shade, dust and debris

Simple design, with Plug and Play chain installation
Improved safety with no high voltage hazards
No indoor bulky and noisy inverter unit

Internet 24h smart monitoring for each PV module

The INVOLAR MAC250 Microinverter offers the latest technology in power inverters. Each Microinverter is connected to one PV module in the solar panel array. Unlike conventional Inverters, in the event of single panel failure the remaining panels continue to produce power.

By performing Maximum Power Point Tracking (MPPT) at PV module level, INVOLAR Microinverters minimize the effects of shading, debris, snow, panel orientation differences and mismatches or PV module aging, improving the system's energy harvest and customer income by an average of 16% over the system lifetime.

With the MAC250 inverter to inverter chain interconnection, which dispenses costly bus cables, even DIY installation is a breeze.

These advantages in combination with a much longer product warranty, enables an INVOLAR Microinverter system to greatly improve the end customer's Return On Investment, system interactivity and overall investment satisfaction.

Technical Specifications

Model	
Model	MAC250A - Europe
Input Data (DC)	
Recommended Input Power (STC)	250W/200W~260W*
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	15 - 25 Years (depending on location)

*Prior to installation please inform INVOLAR on panel model to be used.

The MAC250A is the most flexible microinverter on the market, if another panel type is required please contact INVOLAR for further information.

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