

INVOLAR

Microinverters

INVO²



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

Maximized energy harvest (up to 25%)
Reduced power loss with shade, dust and debris

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

The INVOLAR INVO² 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 the 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 up to 25% over the system lifetime.

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.

Technical Specifications

Model	MAC500
Input Data (DC)	
Recommended Input Power (STC)	300W*2 *
DC voltage operating range	18V~50V
MPPT Voltage Range	28V~40V
Maximum DC Current	10A
Output Data (AC)	
Rated AC Power @ 25°C	500W
Maximum AC Current	2.27A
AC voltage Range	184V~275V
AC frequency	50Hz(47Hz~51Hz), 60Hz(59~61Hz)
Power Factor	>0.99
Current THD	<3.5%
Maximum Units Per Branch	8
Efficiency	
Peak Inverter Efficiency	95.5%
CEC Weighted Efficiency	94.5%
Nighttime Power Consumption	<120mW
Mechanical Data	
Enclosure Environmental Rating	Outdoor - IP67/NEMA6
Operating Temperature Range	-40°C~+65°C
Dimensions (WxHxD)	237mm x165mm x 25mm
Weight	3.2kg
Features	
PV Panel type	Mono/Polycrystalline Si 60/72 cells*
Communication	PLCC with Egate/eLog unit
Compliance	IEC/EN 62109-1&IEC/EN 62109-2 UL1741&IEEE1547
Warranty	15 - 25 Years

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

The MAC500 is the most flexible microinverters on the market, If other panel types are required please contact INVOLAR for further information.

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