

INVOLAR Microinverter

Model MAC250



The INVOLAR MAC250 Microinverter offers unique technology that enables much improved solar energy harvest, increased reliability, simplified installation and efficient management of solar power systems.

Each INVOLAR Micro-Inverter is individually connected to one PV module in the solar panel array. This unique configuration achieves Maximum Peak Power Point Tracking (MPPT) at the PV module level, thus eliminating single-point-failure, minimizing the effect of shading, soiling, orientation or PV module aging, and improving the system's efficiency by up to 25%.

Features

- High energy harvest
- Long life time
- High quality power generation
- Easy installation
- Improved safety
- Constant remote monitoring at PV module level
- No single point failure

Microinverter Datasheet

Model	MAC250
Input Data (DC)	
Maximum input DC power	180W~250W
Maximum input DC voltage	50V
MPPT voltage range	22V~40V
Maximum DC input current	10A
Output Data (AC)	
Rated AC output Power	180W
Maximum AC output Power	220W
Rated AC output current	0.82A
Maximum AC output current	1A
AC output voltage range	195V~253V
AC output frequency range	49.5Hz~50.5Hz
Power factor	0.99
Total Harmonic Distortion	<4%
Maximum units per branch	16
Efficiency	
Peak inverter efficiency	95.0%
CEC weighted efficiency	94.0%
Nighttime power consumption	100mW
Mechanical Data	
Enclosure environmental rating	IP65
Operating temperature range	-25°C~+65 °C
Dimensions (WxHxD)	230mm/138mm/35mm
Weight	2.4kg
Features	
Communication	Power line
Compliance	CQC/TUV/CE
Warranty	15 Years