

INVOLAR

Microinverters

INVO¹



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 INVO¹ 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	Invo250
Input Data (DC)	
Recommended Input Power (STC)	200~280W*
DC voltage operating range	22V~50V
MPPT Voltage Range	28V~40V
Maximum DC Current	10A
Output Data (AC)	
Peak AC Power @ 25°C	255W
Rated AC Power @ 25°C	245W
Maximum AC Current	1.2A
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	16
Efficiency	
Peak Inverter Efficiency	95.8%
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)	178mm x227mm x 32mm
Weight	1.8kg
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 VDE-AR-N-4105
Warranty	15 - 25 Years

*Prior to installation please inform INVOLAR on panel model to be used.
The INVO250 is the most flexible microinverters on the market, If other panel types are required please contact INVOLAR for further information.

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