

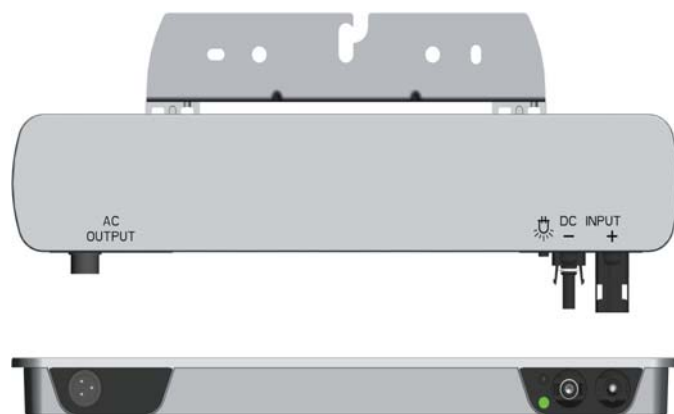
INV315-50

Micro-Inverter

Description

The AEconversion Micro-Inverter INV315-50 converts the generated energy into grid-compliant alternating current. For this, the INV315-50 is directly connected to one PV-module. The Individual conversion utilization of solar energy.

The micro-inverter INV315-50 operates up to a maximum power of 315W with a maximum PV input voltage of 50V.



Input

- Maximum PV power: 315W
- Recommended PV power: 290W - 340W
- Maximum DC voltage: 50 V
- MPPT voltage range: 24 V... 40V
- Maximum DC current: 9.5A

Output

- Maximum AC Power: 300W
- Nominal Current: 1.2 A
- Power factor: > 0.99

Efficiency

- Peak inverter efficiency: 96 %
- European efficiency: 95 %
- MPPT-efficiency: 99.8 %

Mechanical Data

- Operating Temperature: -25 °C ... +70 °C
- Night time power consumption: 30 mW
- Max. altitude a.s.l.: 2000 m
- DC Input: Amphenol H4
- AC Output: female connector Wieland system RSTi mini
- Dimensions (WxHxD): 390mm x 100 mm x 30 mm
- Weight: 0.8 kg
- Cooling: natural convection
- Enclosure material: aluminum
- Protection Degree: IP65 (iP67) & NEMA4

50 Hz-Version

- Nominal AC voltage: 230 V
- Nominal AC voltage range: 184V ... 264V
- Frequency: 50.0 Hz
- Frequency range: 47.5 Hz ... 51.5 Hz

60 Hz-Version

- Nominal AC voltage: 208 V or 240 V
- Nominal AC voltage range: 184V ... 264V
- Frequency: 60.0 Hz
- Frequency range: 59.5 Hz ... 60.3 Hz

Safety and standards

- Productsafety:
 - IEC 62109-1
 - IEC62109-2
 - UL1741
 - IEEE 1547
 - CSA C22.2
- EMC:
 - IEC 61000-6-3
 - IEC 61000-6-4
 - IEC 61000-6-1
 - IEC 61000-6-2

Features

- Communication Version: smart RF communication
- Safety class: Class I
- Topology: Transformer/galvanically isolated
- integrated safety features