

SOLAR MICRO INVERTER 260



FEATURES

- Reactive power control. Dynamic power factor regulation.
- Power factor options:
 - Unity (1),
 - Fixed down to 0.8, capacitive/ inductive,
 - Dynamic according to power or grid voltage.
- Very low power needed to start the inverter (< 2W).
- Foil capacitors are used, allowing very long lifetime (25 years) and high MTBF values (up to 600 years MTBF).
- Electronics is designed with automotive standard components, ensuring easy implementation of automated production with automotive quality and traceability.
- Compact waterproof design.
- Internet access to panel data through the communication gateway (WiFi, Ethernet gateway with embedded web server). The desired real power and power factor can also be set through the communication gateway allowing dynamic control of micro grid performances and adaptation to every grid quality.
- Extremely precise MPPT algorithm.
- Very low panel's DC ripple current (50 mA).
- High efficiency.
- Integrated IPS (Interface Protection System) /Anti-Islanding Protection.
- Optional: parallel connection of two solar panels each with peak power up to 140 W and max DC input voltage up to 60 V (Double DC connector).
- Suitable for 60 and 72-cell panels up to 310 Wp.





TECHNICAL CHARACTERISTICS

PARAMETERS	VALUE
Recommended rated input DC power	200 W - 275 W
Max PV panel power	up to 310 Wp
Max DC input voltage	60 V
MPPT range	21 V-55 V
Min start voltage	21 V
Max DC short circuit current	12 A
Max input current	10.5 A
Operating range	15 V- 60 V
Nominal apparent AC power	290 VA
Nominal real AC power	260 W
Nominal reactive AC power (at power factor 0.9)	125 VAR
Max reactive power	0 - 260 VAR (cap., ind.)
Nominal output current	1.15 A
Frequency range	50 Hz (47.5 Hz-55 Hz) According to standards
Voltage range 240 V systems	180 V - 270 V According to standards
Reactive power regulation	1 (Unity) 0.8 cap. ... 1 ... 0.8 ind. Dynamic regulation
THD odd harmonics	< 3 %
Efficiency max.	96.1 %
Efficiency CEC/EURO	95.5 % / 95.3 %
MPPT efficiency	99.9 %
Panel's ripple current	50 mA
Ambient temperature	-40 °C ... +65 °C
Cooling	Natural
Communication	WMBUS 868 Mhz (optional 915 Mhz)
Complies to	EN 50438, VDE 4105, CEI 0-21, G83/2, EN 62109-1, EN 62109-2, EN 61000-6-3, EN 61000-6-1, RoHS
Lifetime expectancy	25 years
Limited warranty	25 years
Housing	Die casted aluminum
IP protection	IP67, completely potted (waterproof)
Dimensions (without mounting brackets)	209 x 221 x 40 mm
Mounting brackets	M8x16, distance 130 mm
Weight	cca 2 kg
AC connection system	Amphenol LTW VTC/Wieland RST
DC connection system	Amphenol LTW H4
Standby consumption	0 W
Integrated Interface Protection System/Anti-islanding protection	as for VDE 4105