



SOLIVIA 11 TR

High efficiency 3-phase solar inverters for the European market -
Perfect choice for medium sized systems, such as those frequently
used in the commercial or agricultural sectors

Versatile applications

- Usable with all commercially available solar modules (mono, poly, amorphous)
- Wide input voltage range
- Suitable for indoor and outdoor applications (IP65)

Maximum profitability

- Peak efficiency of 96.8 %
- Full output power up to 55 °C
- 10 years guarantee after online registration

11000 Watt solar inverters

Technical data SOLIVIA 11 TR

INPUT (DC)	SOLIVIA 11.0 1TR3 E4
Max. recommended PV power	13.3 kW _p
Nominal power	11.6 kW
Voltage range	375 ... 1000 V ¹⁾
Full power MPP range	380... 900 V
Nominal current	19.5 A @ 600 V
Max. current	29 A

OUTPUT (AC)	
Nominal apparent power	11 kVA ^{2), 3), 4)}
Voltage range	3 x 400 V + N + PE (+18 / -20 %) ⁵⁾
Nominal current	16 A
Nominal frequency	50 Hz
Frequency range	50 Hz ± 5 Hz ⁵⁾
Power factor adjustable	0.8 cap ... 0.8 ind
Total harmonic distortion (THD)	< 5 % @ nominal apparent power

GENERAL SPECIFICATION

Model name	SOL11.0-1TR3-E4
Part number Delta	EOE48030469
Max. efficiency	96.8 %
Efficiency EU	95.6 %
Operating temperature	-25 ... +70 °C
Full power without derating	-25 ... +55 °C
Storage temperature	-25 ... +80 °C
Humidity	0 ... 95 %
Max. operating altitude	2000 m (above sea level)

MECHANICAL DESIGN

Size (L x W x D)	685 x 410 x 185 mm
Weight	39 kg
Cooling	Fan (plug & play)
AC connector	Amphenol C16/3
DC connector	3 pairs of Multi-Contact MC4
Communication interfaces	2 x RJ45 / RS485 + 1 x USB A
DC disconnecter	Integrated
Display	3 LEDs, 4-line LCD

SAFETY / STANDARDS	SOLIVIA 11.0 1TR3 E4
Protection degree	IP65 / IP54 ⁶⁾
Safety class	I
Configurable trip parameters	Yes
Insulation monitoring	Yes
Overload behavior	Current limitation; power limitation
Anti-islanding protection / Grid regulation	VDE 0126-1-1/A1; UTE C15-712-1; France/Islands (60 Hz); RD 661/2007; RD 1699/2011; RD 1663/2000; Synergrid C10/11 (July 2012); EN 50438; G59/1-2; VDE-AR-N 4105; BDEW; VFR 2013; VFR 2014 ⁷⁾
EMC	EN61000-6-2; EN61000-6-3; EN61000-3-11; EN61000-3-12
Safety	IEC62103; IEC62109-1 / -2; EC conformity

- 1) Maximum input voltage without damage: 1000 V
- 2) Cos Phi = 1 (VA = W)
- 3) Continuous nominal active power in the range of Cos Phi = 0.9 cap ... 0.9 ind
- 4) The AC power can be limited at the inverter during commissioning to meet country-specific regulations regarding the maximum permissible grid load.
- 5) AC voltage and frequency range will be programmed according to the individual country requirements.
- 6) An overview of our inverters that can be installed in your country can be found on our website www.solar-inverter.com.
- 7) IP65 for electronics / IP54 for cooling area

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