



SOLIVIA 20 TL

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

- Aluminium housing ensures long lasting protection against moisture and corrosion
- Wide input voltage range
- Suitable for indoor and outdoor applications (IP65)

Maximum profitability

- Peak efficiency of 98.1 %
- Full output power up to 40 °C
- 2 MPP trackers
- 10 years guarantee after online registration

20 kW transformerless solar inverters

Technical data SOLIVIA 20 TL

INPUT (DC)	SOLIVIA 20 EU G3 TL
Max. recommended PV power	25 kW _p
Nominal power	20.4 kW
Voltage range	250 ... 1000 V
Full power MPP range	350 ... 800 V
Max. current	60 A (30 A per MPP)
Max. number of MPP trackers	2

OUTPUT (AC)	
Nominal power	20 kW
Voltage range	3 x 400 V (± 20 %) (3 phases, 3 wires) ¹⁾
Nominal current	29 A (per phase)
Nominal frequency	50 / 60 Hz
Frequency range	50 Hz: 47 ... 53 Hz; 60 Hz: 57 ... 63 Hz ¹⁾
Power factor	> 0.99 @ nominal power
Total harmonic distortion (THD)	< 3 % @ nominal power

GENERAL SPECIFICATION

Model name	SOLIVIA 20 EU G3 TL ²⁾
Part number Delta	EOE48010224
Max. efficiency	98.1 %
Efficiency EU	> 97.5 %
Operating temperature	-20 ... +60 °C
Full power without derating	-20 ... +40 °C
Storage temperature	-20 ... +80 °C
Humidity	0 ... 90 %
Max. operating altitude	2000 m (above sea level)

MECHANICAL DESIGN

Size (L x W x D)	952 x 624.7 x 278 mm
Weight	65 kg
Cooling	Fan
AC connector	Amphenol C16/3
DC connector	4 pairs of Multi-Contact MC4
Communication interfaces	2 x RJ45 / RS485
DC disconnecter	Integrated
Display	Black/white graphical LCD

STANDARDS / DIRECTIVES	SOLIVIA 20 EU G3 TL
Protection degree	IP65 / IP54 ³⁾
Safety class	I
Configurable trip parameters	Yes
Insulation monitoring	Yes
Overload behavior	Current limitation; power limitation
Anti-islanding protection / Grid regulation	DIN VDE 0126-1-1; RD 661/2007; UTE C15-712-1; EN 50438
EMC	EN61000-6-2; EN61000-6-3; EN61000-3-11; EN61000-3-12
Safety	EN 60950-1; EN 50178; IEC 62103; IEC 62109-1 / -2

- 1) AC voltage and frequency range will be programmed according to the individual country requirements.
- 2) An overview of our inverters that can be installed in your country can be found on our website www.solar-inverter.com.
- 3) IP65 for electronics / IP54 for cooling area

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