



# SOLIVIA 5.0 TL

High efficiency solar inverters for the European market -  
Perfect choice for a single or multi-family house

## Versatile applications

- RS485, Ethernet and WiFi communication interfaces
- 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 97.5 %
- Full output power up to 40 °C
- 10 years guarantee after online registration

# 5 kW transformerless solar inverters

## Technical data SOLIVIA 5.0 TL

INPUT (DC)	SOLIVIA 5.0 EU T4 TL
Max. recommended PV power	6250 W <sub>p</sub>
Nominal power	5170 W
Voltage range	250 ... 1000 V <sup>1)</sup>
Full power MPP range	320 ... 850 V
Max. current	17.5 A
Max. number of MPP trackers	1

OUTPUT (AC)	
Nominal apparent power	5 kVA <sup>2)</sup>
Voltage range	184 ... 276 V <sup>3)</sup>
Nominal current	21.7 A
Nominal frequency	50 Hz
Frequency range	50 Hz ± 5 Hz <sup>3)</sup>
Power factor adjustable	0.8 cap ... 0.8 ind
Total harmonic distortion (THD)	< 3 % @ nominal apparent power

### GENERAL SPECIFICATION

Model name	SOLIVIA 5.0 EU T4 TL <sup>4)</sup>
Part number Delta	EOE46030456
Max. efficiency	97.5 %
Efficiency EU	97 %
Operating temperature	-20 ... +60 °C
Full power without derating	-20 ... +40 °C
Storage temperature	-25 ... +60 °C
Humidity	10 ... 95 %
Max. operating altitude	2000 m (above sea level)

### MECHANICAL DESIGN

Size (L x W x D)	482 x 470 x 167 mm
Weight	21.5 kg
Cooling	Convection
AC connector	Wieland RST25i3S
DC connector	2 pairs of Multi-Contact MC4
Communication interfaces	RS485, Ethernet, WiFi <sup>5)</sup>
DC disconnecter	Integrated
Display	2 LEDs, 2-line LCD

SAFETY / STANDARDS	SOLIVIA 5.0 EU T4 TL
Protection degree	IP65
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 1699/2011; RD1633/2000; UTE C15-712-1; Synergrid C10/11 2012; EN 50438; G59/1-2; VDE-AR-N 4105 <sup>6)</sup>
EMC	EN61000-6-2; EN61000-6-3; EN61000-3-11; EN61000-3-12
Safety	IEC62109-1 / -2; CE compliance

- 1) Maximum input voltage without damage: 1000 V
- 2) Cos Phi = 1 (VA = W)
- 3) AC voltage and frequency range will be programmed according to the individual country requirements.
- 4) An overview of our inverters that can be installed in your country can be found on our website [www.solar-inverter.com](http://www.solar-inverter.com).
- 5) One communication interface per inverter; can be exchanged later on
- 6) Our certification process is ongoing - please check our website at [www.solar-inverter.com](http://www.solar-inverter.com) for the latest country grid list.

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