



# SOLIVIA 12 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 98.3 %
- Operating temperature up to 60 °C
- 2 MPP trackers - symmetrical and asymmetrical loading possible (33/67 %)
- 5 years standard guarantee plus 5 additional years free after online registration

# 12 kW transformerless solar inverters

## Technical data SOLIVIA 12 TL

INPUT (DC)	SOLIVIA 12 EU T4 TL
Max. recommended PV power	15.6 kW <sub>p</sub> <sup>1)</sup>
Nominal power	12.6 kW
Voltage range	250 ... 1000 V
Full power MPP range	420 ... 850 V
Max. current	30 A (20 A per MPP tracker)
Max. number of MPP trackers	Parallel inputs: 1 MPP tracker Separate inputs: 2 MPP trackers
Input load	Symmetrical and asymmetrical (33/67 %)

### OUTPUT (AC)

Nominal apparent power	12.0 kVA <sup>2)</sup>
Voltage range	3 x 230 / 400 V (± 20 %) + N + PE <sup>3)</sup>
Nominal current (per phase)	17.4 A
Nominal frequency	50 / 60 Hz
Frequency range	50 / 60 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 12 EU T4 TL <sup>4)</sup>
Part number Delta	EOE48030542
Max. efficiency	98.3 %
Efficiency EU	97.7 %
Operating temperature	-20 ... +60 °C
Full power without derating	-20 ... +40 °C
Storage temperature	-25 ... +70 °C
Humidity	5 ... 95 %
Max. operating altitude	2000 m (above sea level)

### MECHANICAL DESIGN

Size (L x W x D)	620 x 625 x 275 mm
Weight	40 kg
Cooling	Convection with fans
AC connector	Amphenol C16/3
DC connector	4 pairs of Multi-Contact MC4
Communication interfaces	RS485
DC disconnecter	Integrated
Display	5" monochrome graphical LCD

SAFETY / STANDARDS	SOLIVIA 12 EU T4 TL
Protection degree	IP65 / IP55 <sup>5)</sup>
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/A1; UTE C15-712-1; VFR 2013; VFR 2014; VDE-AR-N 4105; Synergrid C10/C11 (July 2012), EN 50438, CEI 0-21 <sup>6)</sup>
EMC	EN61000-6-2; EN61000-6-3
Safety	IEC62109-1 / -2; CE compliance

- 1) When operated with symmetrical and asymmetrical input load
- 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) IP65 for electronics / IP55 for cooling area
- 6) Please check our website at [www.solar-inverter.com](http://www.solar-inverter.com) for the latest country grid list.

### United Kingdom

Email: [sales.uk@solar-inverter.com](mailto:sales.uk@solar-inverter.com)  
Tel: 0800 051 4280 (Free Call)

### International

Email: [sales.europe@solar-inverter.com](mailto:sales.europe@solar-inverter.com)  
Tel: +49 7641 455 547

