



SOLIVIA 6.0 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 98.2 %
- 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

6.0 kW transformerless solar inverters

Technical data SOLIVIA 6.0 TL

INPUT (DC)	SOLIVIA 6.0 EU T4 TL
Max. recommended PV power	7.8 kW _p ¹⁾
Nominal power	6.3 kW
Voltage range	250 ... 1000 V
Full power MPP range	315 ... 850 V
Max. current	20 A (10 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	6.0 kVA ²⁾
Voltage range	3 x 230 / 400 V (± 20 %) + N + PE ³⁾
Nominal current (per phase)	8.7 A
Nominal frequency	50 / 60 Hz
Frequency range	50 / 60 Hz ± 5 Hz ³⁾
Power factor adjustable	0.8 cap ... 0.8 ind
Total harmonic distortion (THD)	< 3 % @ nominal apparent power

GENERAL SPECIFICATION

Model name	SOLIVIA 6.0 EU T4 TL ⁴⁾
Part number Delta	EOE47030555
Max. efficiency	98.2 %
Efficiency EU	97.2 %
Operating temperature	-25 ... +60 °C
Full power without derating	-25 ... +40 °C
Storage temperature	-25 ... +70 °C
Humidity	5 ... 95 % (non-condensing)
Max. operating altitude	2000 m (above sea level)

MECHANICAL DESIGN

Size (L x W x D)	620 x 625 x 275 mm
Weight	38 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 6.0 EU T4 TL
Protection degree	IP65 / IP55 ⁵⁾
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 ⁶⁾
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.
- 5) IP65 for electronics / IP55 for cooling area
- 6) Please check our website at www.solar-inverter.com for the latest country grid list.

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