

SOLiViA 5.0



5000 Watt solar inverter

SOLIVIA - The new generation of solar inverters from Delta offer high-efficiency string and central inverters. SOLIVIA stands for *Solar inverters for versatile and intelligent applications*.



One model for all countries

One unit can be used in more than eight European countries (e.g. DE, FR, ES, IT, PT, GR, CZ, BE) simply by the click of a button! The multi-country models will help our customers to save costs in warehousing and logistics.



Wide temperature range

The SOLIVIA 5.0 achieves a peak efficiency of 95.6%. Its wide range of temperatures allow you to feed power in the national grid even in hot, southern European countries. The SOLIVIA inverters have an intelligent MPP tracking and extract maximum performance from your solar cells under all operating conditions.



Versatile applications

The SOLIVIA 5.0 inverters can be used with all common photovoltaic module types, even with back-contact modules and thin-film modules that require positive or negative DC grounding. With the optional grounding kit from Delta, the SOLIVIA inverters are a perfect fit for these applications.



State-of-the-art display

We improved the usability of our inverters with a new display that is brighter, offers a wider viewing angle and consumes less power. The display messages can be shown in a choice of 5 different languages (DE, EN, ES, FR, IT).

INPUT (DC)	
Max. recommended PV power	6000 W EU (5250 W DE)
Nominal power	5500 W EU (4850 W DE)
Voltage range	125 ... 540 V
MPP range	150 ... 450 V
Full power MPP range	150 ... 450 V
Nominal current	17.2 A
Max. current	32.0 A
Stand-by power	< 0.2 W

GENERAL SPECIFICATION	
Model name	SOLIVIA 5.0 EU G3
Max. efficiency	95.6 %
Efficiency EU	94.6 %
Operating temperature	-25 ... +60 °C
Storage temperature	-25 ... +80 °C
Humidity	0 ... 98 %

MECHANICAL DESIGN	
Size (L x W x D)	510 x 410 x 180 mm
Weight	32.0 kg
Cooling	Convection
AC connector	Wieland RST25i3S
DC connector	4 pairs Tyco Solarlok
Communication	2 Harting RJ45 / RS485
DC disconnect	-
Display	3 LEDs, LCD

OUTPUT (AC)	
Max. power	5240 W EU (5000 W DE)
Nominal power	5000 W EU (4600 W DE)
Voltage range	184 ... 264 V *
Nominal current	22.0 A
Max. current	27.2 A
Nominal frequency	50 Hz
Frequency range	47.0 ... 52.0 Hz *
Power factor	> 0.99 @ nominal power
Total harmonic distortion (THD)	< 4 % @ nominal power

STANDARDS	
Protection degree	IP65
Safety class	1
Configurable trip parameters	Yes
Insulation monitoring	Yes
Anti-islanding protection	VDE 0126-1-1;
	RD 1663;
	ENEL G.L. 12/2008;
	EN 50438

DIRECTIVES	
EMC	EN61000-6-2; EN61000-6-3;
	EN61000-3-11; EN61000-3-12
Safety	EN60950-1; EN50178;
	IEC62103; IEC62109-1 / -2

* AC voltage and frequency range will be programmed according to the individual country requirements

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