

SOLiViA 5.0



5000 Watt solar inverter

Delta, with over 70 years of power electronics experience, presents high efficiency solar inverters designed in Germany. SOLIVIA stands for "SOLar Inverters for Versatile and Intelligent Applications". The 3rd generation of our solar inverters offers cutting-edge and outstanding SOLIVIA features with output power from 2.5 kW to 5.0 kW.



Efficiency & temperature

The brand new SOLIVIA inverters for Australian market have a maximum efficiency of 96%, do not have fans, are dust tight (IP65), and operate over a wide range of temperatures.



Versatile applications

The SOLIVIA string inverters can be used with all common photovoltaic module types, even with back-contact 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.

INPUT (DC)	
Max. recommended PV power	6000 W
Nominal power	5500 W
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

OUTPUT (AC)	
Max. power	5240 W
Nominal power	5000 W
Voltage range	210 ... 264 V
Nominal current	22.0 A
Max. current	27.2 A
Nominal frequency	50 Hz
Frequency range	48.0 ... 52.0 Hz
Power factor (cos φ)	> 0.99 @ nominal power
Total harmonic distortion (THD)	< 5 % @ nominal power

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

STANDARDS	
Protection degree	IP65
Safety class	1
Configurable trip parameters	Yes
Insulation monitoring	Yes
Anti-islanding protection	AS 4777.2; AS 4777.3; IEC 60255.5

MECHANICAL DESIGN	
Size (L x W x D)	510 x 410 x 180 mm
Weight	32.0 kg
Cooling	Free convection
AC connector	Wieland RST25i3S
DC connector	4 pairs of Multicontact MC4
Communication	2 Harting RJ45 / RS485
Display	3 LEDs, LCD

DIRECTIVES	
EMC	AS 4777.1; AS 4777.2; AS 4777.3; EN 61000-6-2; IEC / EN 61000-6-3
Safety	AS/NZS 60950; AS/NZS 3100; AS 4777.2; AS 4777.3

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