



Solivia 2.5 / 3 / 3.3 / 5 Solar Inverters

Power
2.5 - 3.3 kW

Delta is a European company which produces high frequency inverters that are completely German engineered and developed from over 70 years of power electronics experience.

SOLIVIA stands for Solar Inverters for Versatile and Intelligent Applications. The 3rd generation of Delta's inverters offer cutting edge and outstanding SOLIVIA features with output from 2.5kW to 5kW.

The company head quarters is the Delta Energy Systems plant in Germany but holds an exact replica of the solar power plant in Thailand called the Delta Electronics. Both of these are part of the Delta Group..



Efficiency & temperature

The brand new SOLIVIA inverters for the Australian market use the state of the art High Frequency technology, 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.

Warranty

10 year warranty.



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Technical Data

	Solivia 2.5	Solivia 3	Solivia 3.3	Solivia 5
Input (DC)				
Max. recommended PV power	3100 W	3650 W	4000 W	6000 W
Nominal power	2750 W	3300 W	3630 W	5500 W
Voltage range	125 ... 540 V	125 ... 540 V	125 ... 540 V	125 ... 540 V
MPP range	150 ... 450 V	150 ... 450 V	150 ... 450 V	150 ... 450 V
Full power MPP range	150 ... 450 V	150 ... 450 V	150 ... 450 V	150 ... 450 V
Nominal current	9.8 A	11.8 A	13.0 A	17.2 A
Max. current	18.0 A	22.0 A	24.0 A	32.0 A
Stand-by power	< 0.2 W	< 0.2 W	< 0.2 W	< 0.2 W

Output (AC)				
Max. power	2640 W	3170 W	3485 W	5240 W
Nominal power	2500 W	3000 W	3300 W	5000 W
Voltage range	210 ... 264 V	210 ... 264 V	210 ... 264 V	184 ... 264 V
Nominal current	10.9 A	13.0 A	14.4 A	22.0 A
Max. current	11.9 A	14.3 A	15.7 A	27.2 A
Nominal frequency	50 Hz	50 Hz	50 Hz	50 Hz
Frequency range	48.0 ... 52.0 Hz	48.0 ... 52.0 Hz	48.0 ... 52.0 Hz	48.0 ... 52.0 Hz
Power factor (cos φ)	> 0.99 @ nominal power	> 0.99 @ nominal power	> 0.99 @ nominal power	> 0.99 @ nominal power
Total harmonic distortion (THD)	< 5 % @ nominal power	< 5 % @ nominal power	< 5 % @ nominal power	< 5 % @ nominal power

General Specification				
Model name	SOLIVIA 2.5 AP G3	SOLIVIA 3.0 AP G3	SOLIVIA 3.3 AP G3	SOLIVIA 5.0 EU G3
Max. efficiency	96.0 %	96.0 %	96.0 %	95.6 %
Efficiency EU	94.8 %	94.8 %	94.8 %	94.6 %
Operating temperature	-25 ... +70 °C	-25 ... +70 °C	-25 ... +70 °C	-25 ... +60 °C
Storage temperature	-25 ... +80 °C	-25 ... +80 °C	-25 ... +80 °C	-25 ... +80 °C
Humidity	0 ... 98 %	0 ... 98 %	0 ... 98 %	0 ... 98 %

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

Mechanical Design				
Size (L x W x D)	410 x 410 x 180 mm	410 x 410 x 180 mm	410 x 410 x 180 mm	510 x 410 x 180 mm
Weight	21.5 kg	21.5 kg	21.5 kg	32 kg
Cooling	Free convection	Free convection	Free convection	Free convection
AC connector	Wieland RST25i3S	Wieland RST25i3S	Wieland RST25i3S	Wieland RST25i3S
DC connector	4 pairs of Multicontact MC4	4 pairs of Multicontact MC4	4 pairs of Multicontact MC4	4 Tyco Solarlok
Communication	2 Harting RJ45 / RS485	2 Harting RJ45 / RS485	2 Harting RJ45 / RS485	2 Harting RJ45 / RS485
Display	3 LEDs, LCD	3 LEDs, LCD	3 LEDs, LCD	3 LEDs, LCD

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



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