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origin

Origin8400 8.4kW Solar System Inverter Specifications

Your Origin8400 system will be supplied with the following inverter(s):

- Delta Solivia 5.0

Please note the inverter supplied with your solar system is AS4777 accredited.

Please see the following specification sheet for further details and inverter specifications.

SOLIVIA 5.0 AP G3 TR



Features

- Transformer with peak efficiency (95.6 %)
- Isolation of primary and secondary circuit
- Wide operating temperature ranges: -25 °C to +60 °C
- RS485 (EIA485) communication interfaces
- Intelligent MPP tracking
- Suitable for indoor and outdoor applications (IP65)
- Without fan
- Simple and direct on-screen data display

Solar Inverter SOLIVIA 5.0 AP G3 TR

The latest high frequency technology used in the SOLIVIA 5.0 TR solar inverters for the Asian-Pacific market enable them to operate at maximum efficiency and guarantee continuous, outstanding energy outputs.

With their IP65 casing, these high-efficiency, grid-connected SOLIVIA inverters can be used both inside and in protected outside areas.

The mounting bracket with which the SOLIVIA 5.0 TR is easily attached to the wall, is identical to the one used for the SOLIVIA 2.5 TR, SOLIVIA 3.0 TR and SOLIVIA 3.3 TR solar inverters from Delta. You can therefore swap units effortlessly.

The user-friendly display makes the unit easy to operate. The relevant status messages and stored data can be easily called up either directly on the illuminated display or via your computer, which is connected to the WEB'log from Meteocontrol and the SOLIVIA 5.0 TR via the RS485 interface.

The SOLIVIA inverters have an intelligent MPP tracking and extract maximum performance from your solar panels under all operating conditions.

Delta's SOLIVIA series meet all guidelines regarding safety standards, EMC and national requirements. Therefore the solar inverters are fitted with overvoltage protection, heat protection, short circuit protection and overcurrent protection.

Because the SOLIVIA 5.0 TR is compatible with monitoring products from Meteocontrol, you can keep an eye on the status of your PV installation and the output from anywhere at any time.

The SOLIVIA 5.0 TR from Delta can be used for any size of installation. It is particularly suitable for users who are looking for a solar inverter for medium-sized to large-scale solar installations.

Technical data SOLIVIA 5.0 AP G3 TR

INPUT (DC)	AUSTRALIA	CHINA	INDIA	THAILAND PEA
Max. recommended PV power	6000 W			
Nominal power	5500 W			
Voltage range	125 ... 540 V	125 ... 540 V	125 ... 540 V	125 ... 540 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)	AUSTRALIA	CHINA	INDIA	THAILAND PEA
Max. power	5240 W			
Nominal power	5000 W			
Nominal voltage	230 V	220 V	230 V	220 V
Voltage range	210.0 ... 264.0 V	187.0 ... 242.0 V	184.0 ... 264.5 V	200.0 ... 240.0 V
Nominal current	22.0 A	23.0 A	22.0 A	23.0 A
Max. current	27.2 A	28.5 A	27.2 A	28.5 A
Nominal frequency	50 Hz			
Frequency range	48.0 ... 52.0 Hz	49.5 ... 50.5 Hz	47.3 ... 52.7 Hz	49.5 ... 50.5 Hz
Power factor (cos φ)	> 0.99 @ nominal power			
Total harmonic distortion (THD)	< 5 % @ nominal power			

MECHANICAL DESIGN	AUSTRALIA	CHINA	INDIA	THAILAND PEA
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 Multi-Contact MC4			
Communication interfaces	2 Harting RJ45 / RS485			
Display	LCD; 3 LEDs			

GENERAL SPECIFICATION	AUSTRALIA	CHINA	INDIA	THAILAND PEA
Model name	SOLIVIA 5.0 AP G3 TR			
Part number Delta	EOE46010301			
Max. efficiency	95.6 %			
Efficiency EU	94.6 %			
Operating temperature	-25 ... +60°C			
Storage temperature	-25 ... +80°C			
Humidity	0 ... 98 %			

STANDARDS / DIRECTIVES	AUSTRALIA	CHINA	INDIA	THAILAND PEA
Protection degree	IP65			
Safety class	1			
Overload behavior	Current limitation; power limitation			
Anti-islanding protection	AS 4777.2; AS 4777.3; IEC 60255.5	Yes	VDE 0126-1-1	IEC 61727, IEC 62116
EMC	AS 4777.1; AS 4777.2; AS 4777.3; EN 61000-6-2; IEC / EN 61000-6-3	GB /T 17626; GB 17799	IEC / EN 61000-6-2; IEC / EN 61000-6-3	IEC / EN 61000-6-2; IEC / EN 61000-6-3
Safety	AS/NZS 60950; AS/NZS 3100; AS 4777.2; AS 4777.3	CGC/GF001:2009	IEC 62103:2003, EN 50178:1997, IEC 62109-1:2007, IEC 62109-2:2005	IEC 62103:2003, EN 50178:1997, IEC 62109-1:2007, IEC 62109-2:2005