



Solar River PV Grid-Connect Inverter



Our range of grid-connect inverters feature the latest in power electronics technology and are designed for maximum efficiency, safety and power conversion from your solar module array.

Power Outputs available:

- 1.5kW (Maximum 1650W)
- 2.0kW (Maximum 2200W)
- 3.0kW (Maximum 3300W)
- 4.0kW (Maximum 4400W)
- 5.0kW (Maximum 5000W)

**5 Year
Standard
Warranty!**



Features

- Maximum efficiency of 98%.
- Enclosure with IP 65 protection. Indoor or Outdoor Installation.
- MPPT channel for maximum power conversion.
- Transformerless inverter electronics for safety and reliability.
- Earth Fault and Polarity Protection, Anti Islanding Protection.
- Easy field wiring via plug-in connection for DC, AC and communication cables.
- Inbuilt transient voltage suppression on input and output providing lightning protection.
- LED system operation lamp indicators.
- Easy to read multifunction LCD scrolling display front panel and includes the following parameters: Grid Voltage, Output Power, Daily Power, Total Power, Daily and Total Generating Time, Internal Inverter Temperature, Operational Mode, Time and Date Display.
- Inbuilt data logging and PC monitoring software included.
- Hard wire communications kit available at extra cost.

Certifications

Safety

IEC 62103:2003 (1st. Edition)
EN50178:1997
AS3100

Grid Protection

DIN VDE 0126-1-1:2006
DK5940
AS4777

EMC

EN61000-6-1:2007
EN61000-6-3:2007
EN61000-6-2:2005
EN61000-6-4:2007
EN61000-3-2:2006
EN61000-3-3:1995/+A1:2001/+A2:2005



Technical Data

Inverter Model	SR1K5TLA1	SR2K2TLA1	SR2K8TLA1	SR3K3TLA1	SR4K4TLA1	SR4K4TLA1-PT	SR5KTLA1
Input (DC)							
Max. DC power [W]	1700	2300	3000	3480	4580	4000	5200
Max. DC voltage [V]	550	550	550	550	550	550	550
Max. input current [A]	9	11	13.5	17.5	22	22	26
Number of MPP trackers / Strings per MPP tracker	1 / 1	1 / 1	1 / 1	1 / 2	1 / 2	1 / 2	1 / 2
MPPT voltage range (at rated power) [V]	180~500	200~500	210~500	200~500	200~500	200~500	200~500
Shutdown voltage / Start voltage [V]	70 / 100	70 / 100	70 / 100	70 / 100	70 / 100	70 / 100	70 / 100
Output (AC)							
AC nominal power [W]	1500	2000	2600	3000	4000	3680	4600
Max. AC power [W]	1650	2200	2800	3300	4400	3680	5000
Max. AC current [A]	8.6	11	13.8	16	22	16	24
Nominal AC voltage / range [V]	230 / 180~270	230 / 180~270	230 / 180~270	230 / 180~270	230 / 180~270	230 / 180~270	230 / 180~270
AC grid frequency / range [Hz]	50 / 47~52	50 / 47~52	50 / 47~52	50 / 47~52	50 / 47~52	50 / 47~52	50 / 47~52
Power factor (cosφ)	1	1	1	1	1	1	1
Total harmonic distortion (THD) (at nominal power)	<3%	<3%	<3%	<3%	<3%	<3%	<3%
Efficiency							
Max. efficiency	96.8%	96.8%	97.0%	97.4%	97.6%	97.6%	97.6%
Euro efficiency	95.8%	96.2%	96.3%	96.5%	97.1%	97.1%	96.8%
MPPT efficiency	99.9%	99.9%	99.9%	99.9%	99.9%	99.9%	99.9%
General data							
Dimensions (W / H / D) [mm]	332 / 450 / 161	332 / 450 / 161	332 / 450 / 161	329 / 433 / 180	329 / 433 / 180	329 / 433 / 180	329 / 433 / 180
Weight [kg]	17.1	17.5	17.9	18.9	19.2	19.2	19.4
Operating temperature range [°C]	-20~+60 (derating at 45 °C)	-20~+60 (derating at 45 °C)	-20~+60 (derating at 45 °C)	-20~+60 (derating at 45 °C)	-20~+60 (derating at 45 °C)	-20~+60 (derating at 45 °C)	-20~+60 (derating at 45 °C)
Degree of protection	IP65	IP65	IP65	IP65	IP65	IP65	IP65
Topology	transformerless	transformerless	transformerless	transformerless	transformerless	transformerless	transformerless
Internal consumption(night)[W]	0	0	0	0	0	0	0
Cooling concept	Convection	Convection	Convection	Convection	Fan	Fan	Fan
Noise (typical) [dB]	<30	<30	<30	<30	<40	<40	<40
LCD display	Backlight, 16*2 Character LCD	Backlight, 16*2 Character LCD	Backlight, 16*2 Character LCD	Backlight, 16*2 Character LCD	Backlight, 16*2 Character LCD	Backlight, 16*2 Character LCD	Backlight, 16*2 Character LCD
Communication interfaces	RS485 / RS232	RS485 / RS232	RS485 / RS232	RS485 / RS232	RS485 / RS232	RS485 / RS232	RS485 / RS232
Standard warranty [year]	5	5	5	5	5	5	5

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