

# SolarRiver Series



SolarRiver series PV grid-tied inverters are string inverters specially designed for PV power station by Samil Power. It consists of 7 power levels, which provide more flexible choices for PV power plants. SolarRiver series string inverters are not only with high cost-effective, but also with modern appearance. Moreover, it strictly complies with the international certifications or standards, i.e.: ISO, CE, Golden Sun, TUV, VDE, RD1663, AS4777, G83, DK5940, C10/C11 etc.

- MODEL SR1KTLA1      MODEL SR2K8TLA1
- MODEL SR1K5TLA1    MODEL SR3K3TLA1
- MODEL SR2K2TLA1    MODEL SR4K4TLA1
- MODEL SR5KTLA1

## ■ Features

### Economic

Maximum efficiency of 97.6%  
Wide range of MPPT voltage

### Convenient

Suitable for indoor and outdoor applications  
Plug water proof connector, easy to install and maintain  
Multi-lingual LCD display, easy for module configuration  
Adapt to any situation

### Reliable

Modern appearance with high-quality stainless steel frame  
Reliable protection for overvoltage, islanding, short-circuit, overload, overheat, etc.  
Excellent after-sales services  
5-year quality warranty



Adapt To Any Weather



# Technical Data

# SolarRiver Series 1-5KW

Inverter Model	SR1KTLA1	SR1K5TLA1	SR2K2TLA1	SR2K8TLA1	SR3K3TLA1	SR4K4TLA1	SR5KTLA1
<b>Input (DC)</b>							
Max. DC power [W]	1100	1700	2300	3000	3480	4580	5200
Max. DC voltage [V]	550	550	550	550	550	550	550
Max. input current [A]	9	9	11	13.5	17.5	22	26
Number of MPP trackers / Strings per MPP tracker	1 / 1	1 / 1	1 / 1	1 / 1	1 / 2	1 / 2	1 / 2
MPPT voltage range (at rated power) [V]	120~500	180~500	200~500	210~500	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
<b>Output (AC)</b>							
AC nominal power [W]	1000	1500	2000	2600	3000	4000	4600
Max. AC power [W]	1000	1650	2200	2800	3300	4400	5000
Max. AC current [A]	6	8.6	11	13.8	16	22	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%
<b>Efficiency</b>							
Max. efficiency	96.6%	96.8%	96.8%	97.0%	97.4%	97.6%	97.6%
Euro efficiency	95%	95.8%	96.2%	96.3%	96.5%	97.1%	96.8%
MPPT efficiency	99.9%	99.9%	99.9%	99.9%	99.9%	99.9%	99.9%
<b>General data</b>							
Dimensions (W / H / D) [mm]	332 / 450 / 161	332 / 450 / 161	332 / 450 / 161	332 / 450 / 161	329 / 433 / 180	329 / 433 / 180	329 / 433 / 180
Weight [kg]	17.1	17.1	17.5	17.9	18.9	19.2	19.4
Operating temperature range [°C]	-20~+60 (derating at 55 °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)
Ingress 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	Convection	Fan	Fan
Noise (typical) [dB]	<28	<30	<30	<30	<30	<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 port	RS485 / RS232	RS485 / RS232	RS485 / RS232	RS485 / RS232	RS485 / RS232	RS485 / RS232	RS485 / RS232
Standard warranty [year]	5	5	5	5	5	5	5
<b>Inverter Model</b>	<b>SR1KTLA1</b>	<b>SR1K5TLA1</b>	<b>SR2K2TLA1</b>	<b>SR2K8TLA1</b>	<b>SR3K3TLA1</b>	<b>SR4K4TLA1</b>	<b>SR5KTLA1</b>



English