

SolarRiver Series Inverter (Technical data)

Input (DC)	Inverter Model	SR1K5TLA1	SR2K2TLA1	SR2K8TLA1	SR3K3TLA1	SR4K4TLA1	SR4K4TLA1-PT	SR5KTLA1
Max. DC power [W]		1700	2300	3000	3480	4590	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
MPP 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%
MPP 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
* Detailed parameter please see local grid standard, updated by Feb. 2011								
Inverter Model		SR1K5TLA1	SR2K2TLA1	SR2K8TLA1	SR3K3TLA1	SR4K4TLA1	SR4K4TLA1-PT	SR5KTLA1

SolarRiver Series



SolarRiver (SR) 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. SR series string inverters are not only with high cost-effective, but also has modern appearance.

Moreover, it strictly complies with the international certification or standards, i.e., ISO, CE, RD1663, DKSG40, VDE0126-1-1 and AS4777, etc.

MODEL SR3K3TLA1
MODEL SR4K4TLA1
MODEL SR4K4TLA1/PT
MODEL SR5K5TLA1

■ Features

- Utilizing the latest high-efficiency power device for PV inverters and improving the inverter efficiency significantly
- Original MPPT technology, maximizing the system output power
- Multiple communication via RS232, RS485 (optional)
- Multilingual LCD monitoring, easy to use
- Multi-inverter parallel running mode, simplifying the plant design
- Protection for overvoltage, islanding, overload, overheating, etc.
- Modern appearance design, compact profile and light weight
- Plug connectors for input and output, easy to install and maintain



Adapt To Any Weather



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Technical Data

SolarRiver Series 3.3-5KW

Inverter Model	SR3K3TLA1	SR4K4TLA1	SR4K4TLA1/PT	SR5K5TLA1
Input Data				
Max. DC power(W)	3480	4580	4000	5200
Max. DC voltage(V)	550	550	550	550
Max. input current(A)	17.5	22	22	28
Number of MPPT trackers	1	1	1	1
MPPT voltage range(V)	200~500	200~500	200~500	200~500
Number of DC connection	2	2	2	2
Output Data				
Rated AC power(W)	3000	4000	3880	4600
Max. output power(W)	3300	4400	3880	5000
Max. output current(A)	18	22	18	24
AC connection	Single phase	Single phase	Single phase	Single phase
Grid voltage range(V)	180~280	180~280	180~280	180~280
Grid frequency(Hz)	50/60	50/60	50/60	50/60
Power factor	>0.99	>0.99	>0.99	>0.99
Total Harmonic distortion(THD)	<3% (rated power)	<3% (rated power)	<3% (rated power)	<3% (rated power)
Efficiency				
Max. efficiency	97.4%	97.6%	97.6%	97.6%
Euro efficiency	96.5%	97.1%	97.1%	96.8%
General data				
Dimensions(W*H*D)(mm)	329*433*180	329*433*180	329*433*180	329*433*180
Weight(kg)	17.8	18.6	18.6	18.7
Operating temperature range(°C)	-20~+60	-20~+60	-20~+60	-20~+60
Ambient humidity	0~95%	0~95%	0~95%	0~95%
Altitude(m)	≤2000	≤2000	≤2000	≤2000
Electronics protection rating	IP65	IP65	IP65	IP65
Topology	transformerless	transformerless	transformerless	transformerless
Night-time consumption(W)	0	0	0	0
Cooling concept	Convection	Fan cooling	Fan cooling	Fan cooling
Noise mission (typical) (dB)	<28	<40	<40	<40
Display	LCD	LCD	LCD	LCD
Communication interface	RS485/RS232	RS485/RS232	RS485/RS232	RS485/RS232
Standard warranty(year)	5	5	5	5
Inverter Model	SR3K3TLA1	SR4K4TLA1	SR4K4TLA1/PT	SR5K5TLA1

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