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Samil Power



Samil Power

Expert for PV Grid-tied Inverters™

The Best Inverter from Asia

— Photon June 2011



Better Energy Better Life



- PV Grid-tied Inverters
- System Monitor
- Ambient Monitor
- SolarArray Combiner



Company Profile

Samil Power Co., Ltd.



Who we are

Samil Power is a Spin-off from the Samil Group.

Samil Group was founded in Korea in 1992 and focused on research & design, manufacture and sales of variable speed drives and lift controllers.**Samil Power** started in 2008 as an OEM manufacturer. The technology used in variable speed drives and lift controllers is similar to that of PV inverters. Based on our knowledge and expertise in this field, we are able to develop state-of-art inverters for PV industry.

Samil Power has more than 10 main branches worldwide, namely: Germany, France, Italy, Australia, Beijing, Shenzhen, Wuxi, Suqian, Shanghai, Xian, Xinjiang etc. The main factory occupies 33,000m² with a workshop and test centre of 11,000m² and two R&D centres of 1,000m² each. To cope with the rapid increase in demand a 300,000m² manufacturing facility is under construction on the Suqian site.

What we offer

Samil Power is committing to provide durable system solutions at “Quality products”, “Excellent service” and “Competitive price”.

Our staff

The workforce comprising more than 600 professionals, 30% of which are dedicated to R&D, is a key asset to Samil Power.

Product Range



PV Grid-tied Inverters

SolarRiver String Inverters **1~5KW**

SolarLake Series Grid-tied Inverter **10~17KW**

SolarOcean Series Grid-tied Inverter **100~500KW**

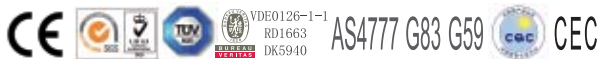


Accessories for PV System

SolarPower Manager

SolarEnvi Monitor

SolarArray Combiner



America



One Earth Only

SolarRiver Series



The most common residential inverter is the ideal size for a wide range sized family home. This single-phase string inverter complements the typical number of rooftop solar panels, allowing home-owners to get the most efficient energy harvesting for the size of the property.

MODELSolarRiver 3000TL-US

MODELSolarRiver 4000TL-US

MODELSolarRiver 5000TL-US

MODELSolarRiver 6000TL-US

■ Features

State of the art technology

- Maximum efficiency of 97.5%
- Wide range of MPPT voltage
- Transformerless - minimising noise and weight

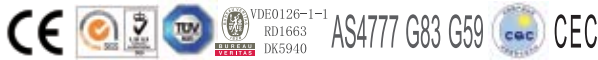
Flexibility

- Use indoor and outdoor (NEMA 4X)
- Suitable for indoor and outdoor applications
- “Plug and play” connection for ease of install/maintainance
- Two MPPT inputs

Built to last

- Modern appearance with high-quality Aluminum die casting frame
- Compliance UL 1741/ IEEE-1547 guideline
- 10-year quality warranty

Adapt To Any Weather



Technical Data

SolarRiver 3000-6000TL-US

Inverter Model	SolarRiver 3000TL-US	SolarRiver 4000TL-US	SolarRiver 5000TL-US	SolarRiver 6000TL-US
Input (DC)				
Max. PV power [Wp]	3700	5000	6200	7400
Max. DC power [W]	3100	4100	5200	6200
Max. DC voltage [V]	550	550	550	550
Max. input current [A]	17.5	11+11	14+14	17.5+17.5
Number of MPP trackers / Strings per MPP tracker	1 / 2	2 / 2	2 / 2	2 / 2
MPPT voltage range [V]	200~500	200~500	200~500	200~500
Shutdown voltage / Start voltage [V]	100 / 150	100 / 150	100 / 150	100 / 150
Output (AC)				
Max. AC power [W]	3000	4000	5000	6000
Max. AC current [A]	14.5@208 ; 12.5@240	19@208 ; 17@240	24@208 ; 21@240	29@208 ; 25@240 ; 22@277
Nominal AC voltage [V]	240(standard); 208	240(standard); 208	240(standard); 208	240(standard); 208, 277
AC Max. voltage range [V]	183~229; 211~264	183~229; 211~264	183~229; 211~264	183~229; 211~264; 244~305
AC nominal frequency / max. frequency range [Hz]	60 / 59.3~60.5	60 / 59.3~60.5	60 / 59.3~60.5	60 / 59.3~60.5
Power factor (cosφ)	1	1	1	1
Total harmonic distortion (THDi)(at nominal power)	<3%	<3%	<3%	<3%
Efficiency				
Max. efficiency	97.5%	97.5%	97.5%	97.5%
CEC efficiency	96.5%	96.5%	96.6%	96.6%
General data				
Dimensions (W / H / D) [mm] (including DC switch)	360 / 600 / 240 mm (14.2 / 23.6 /9.4 in)			
Weight	25 kg / 55lb	25 kg / 55lb	25 kg / 55lb	25 kg / 55lb
Operating temperature range	-20~+60°C (derating at 45 °C) / -4~+140°F (derating at 113 °F)			
Ingress protection	NEMA 4X			
Topology	transformerless			
Internal consumption (night) [W]	0	0	0	0
Cooling concept	Convection	Fan	Fan	Fan
Noise (typical) [dB]	<30	<45	<45	<45
LCD display	2 row Character LCD (no operation at night)			
Communication port	Ethernet(standard) ; RS485/WIFI(optional)			
Altitude	2000m / 6500ft			
Rel. humidity	0~95%			
DC switch	Integrated			
Warranty	10 (standard) / 15, 20 (opt.)			
Inverter Model	SolarRiver 3000TL-US	SolarRiver 4000TL-US	SolarRiver 5000TL-US	SolarRiver 6000TL-US

SolarRiver Series

Technical Data

SolarRiver 7000-10000TL-US



Designed for residential and commercial PV installations, this inverter meets all the requirements from 7kW up to megawatt range.

- MODEL
- SolarRiver 7000TL-US
- MODEL
- SolarRiver 8000TL-US
- MODEL
- SolarRiver 9000TL-US
- MODEL
- SolarRiver 10000TL-US

■ Features

State of the art technology

- Maximum efficiency of 98%
- Wide range of MPPT voltage
- Transformerless - minimising noise and weight

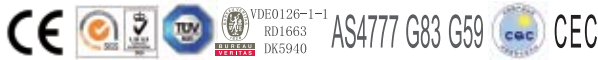
Flexibility

- Use indoor and outdoor (NEMA 4X)
- Suitable for indoor and outdoor applications
- “Plug and play” connection for ease of install/maintainance
- Two MPPT inputs

Built to last

- Modern appearance with high-quality Aluminum die casting frame
- Compliance UL 1741/ IEEE-1547 guideline
- 10-year quality warranty

Adapt To Any Weather



Inverter Model	SolarRiver 7000TL-US	SolarRiver 8000TL-US	SolarRiver 9000TL-US	SolarRiver 10000TL-US
Input (DC)				
Max. PV power [Wp]	8650	9900	11100	12300
Max. DC power [W]	7300	8400	9500	10600
Max. DC voltage [V]	600	600	600	600
Max. input current [A]	16+16	18+18	18+18	20+20
Number of MPP trackers	2	2	2	2
DC inputs	2+3	2+3	2+3	2+3
MPPT voltage range [V]	250~500	250~500	300~500	300~500
Shutdown voltage / Start voltage [V]	100 / 150	150 / 200	150 / 200	150 / 200
Output (AC)				
Max. AC power [W]	7000	8000	9000	10000
Max. AC current [A]	34@208 ; 30@240; 26@277	39@208 ; 34@240; 29@277	44@208 ; 38@240; 33@277	48@208 ; 42@240; 37@277
Nominal AC voltage [V]	240(standard); 208, 277	240(standard); 208, 277	240(standard); 208, 277	240(standard); 208, 277
AC Max. voltage range [V]	183~229; 211~264;244~305	183~229; 211~264;244~305	183~229; 211~264;244~305	183~229; 211~264;244~305
AC nominal frequency / max. frequency range [Hz]	60 / 59.3~60.5	60 / 59.3~60.5	60 / 59.3~60.5	60 / 59.3~60.5
Power factor (cosφ)	1	1	1	1
Total harmonic distortion (THDi) (at nominal power)	<3%	<3%	<3%	<3%
Efficiency				
Max. efficiency	97.5%	97.5%	98.0%	98.0%
CEC efficiency	97.0%	97.0%	97.5%	97.5%
General data				
Dimensions (W / H / D)(including DC switch)	460 / 760 / 238 mm (18.1 / 29.9 /9.4 in)			
Weight	50kg / 110lb	50kg / 110lb	50kg / 110lb	50kg / 110lb
Operating temperature range [°C]	-20~+60°C (derating at 45 °C) / -4~+140°F (derating at 113 °F)			
Ingress protection	NEMA 4X			
Topology	transformerless			
Internal consumption(night) [W]	0	0	0	0
Cooling concept	Fan	Fan	Fan	Fan
Noise (typical) [dB]	<50	<50	<50	<50
LCD display	2 row Character LCD (no operation at night)			
Communication port	Ethernet(standard) ; RS485/WIFI(optional)			
Altitude [m]	2000m / 6500ft			
Rel. humidity	0~95%			
DC switch	Integrated			
Warranty	10 (standard) / 15, 20 (opt.)			
Inverter Model	SolarRiver 7000TL-US	SolarRiver 8000TL-US	SolarRiver 9000TL-US	SolarRiver 10000TL-US

SolarOcean Series

Technical Data

SolarOcean 100-250KW-US



SolarOcean 100-US and 250-US inverters are ideally suited for commercial projects in North America. They have leading edge efficiency in transformer based inverters, even under non-full load conditions, and offer a cost-effective guarantee for the PV power plant system. They have friendly interface, easy to use, modern appearance.

- MODEL SolarOcean 100-US (208V)
- MODEL SolarOcean 100-US (480V)
- MODEL SolarOcean 250-US

■ Features

- Using effective IGBT power module
- Optimal MPPT technology
- Suitable for applications under harsh power grid conditions
- Integrated isolation transformer
- Advanced DSP digital control techniques
- Reliable protection for overvoltage, islanding, short-circuit, overload, overheat, etc.
- Friendly interface, large LCD touch screen easy to install and maintain
- Compliance UL 1741/ IEEE-1547 guideline
- 5-year quality warranty



Inverter Model	SolarOcean 100-US (208V)	SolarOcean 100-US (480V)	SolarOcean 250-US
Input (DC)			
Max. PV power [kWp]	124	124	285
Max. DC power [kW]	103	103	258
Max. DC voltage [V]	600	600	600
Max. input current [A]	350	350	800
DC inputs	2	2	8
MPPT voltage range [V]	300~600	300~600	300~600
Shutdown voltage / Start voltage [V]	300 / 300	300 / 300	300 / 300
Output (AC)			
Max. AC power [W]	100	100	250
Max. AC current [A]	317	137	300
Nominal AC voltage [V]	208	480	480
AC nominal frequency / max. frequency range [Hz]	60	60	60
Power factor (cosφ)	1	1	1
Total harmonic distortion (THDi) (at nominal power)	<3%	<3%	<3%
Efficiency			
Max. efficiency	97.0%	97.0%	97.0%
CEC efficiency	96.0%	96.5%	96.5%
General data			
Dimensions (W / H / D) (including DC switch)	1156 / 1952 / 900 mm (45.5 / 76.8 / 35.4 in)		2200/2180/850 mm (86.6/85.8/33.5 in)
Weight	900kg / 1984lb	900kg / 1984lb	2000kg / 4409lb
Operating temperature range [°C]	-20~+50°C (derating at 45 °C) / -4~+140°F (derating at 113 °F)		
Ingress protection	NEMA 3R		
Internal consumption(night) [W]	<100	<100	<100
Cooling concept	Fan	Fan	Fan
Noise (typical) [dB]	<65	<65	<65
LCD display	Touch screen LCD		
Communication port	RS485		
Rel. humidity	0~95%		
Warranty	10 (standard)		
Inverter Model	SolarOcean 100-US (208V)	SolarOcean 100-US (480V)	SolarOcean 250-US