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Samil Power



Better Energy Better Life

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



CEC STA



Samil Power Co., Ltd.

Company Profile

Who we are

Samil Power was established in 2008 and a spin-off from the Samil Group which was founded in 1992 and focused on research & design, manufacture and sales of variable speed drives and lift controllers.

Samil Power has more than 10 main branches worldwide, namely: Germany, Italy, UK, Australia, Beijing, Shenzhen, Wuxi, Suqian, Xi'an, 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 respectively . To cope with the rapid increase in demand, a 300,000m² manufacturing facility is under construction in Suqian .

What we offer

Samil Power is specialized in solar photovoltaic grid-tied inverters' development, manufacture, sales and service.

Our staff

The founder and CEO is an Australian Chinese with an engineering background.

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

Product Range



PV Grid-tied Inverters

- SolarRiver Inverters **1~5KW** (Single Phase)
- SolarLake Inverters **10~17KW** (Three Phase)
- SolarOcean Inverters **100~500KW** (Central Inverters)

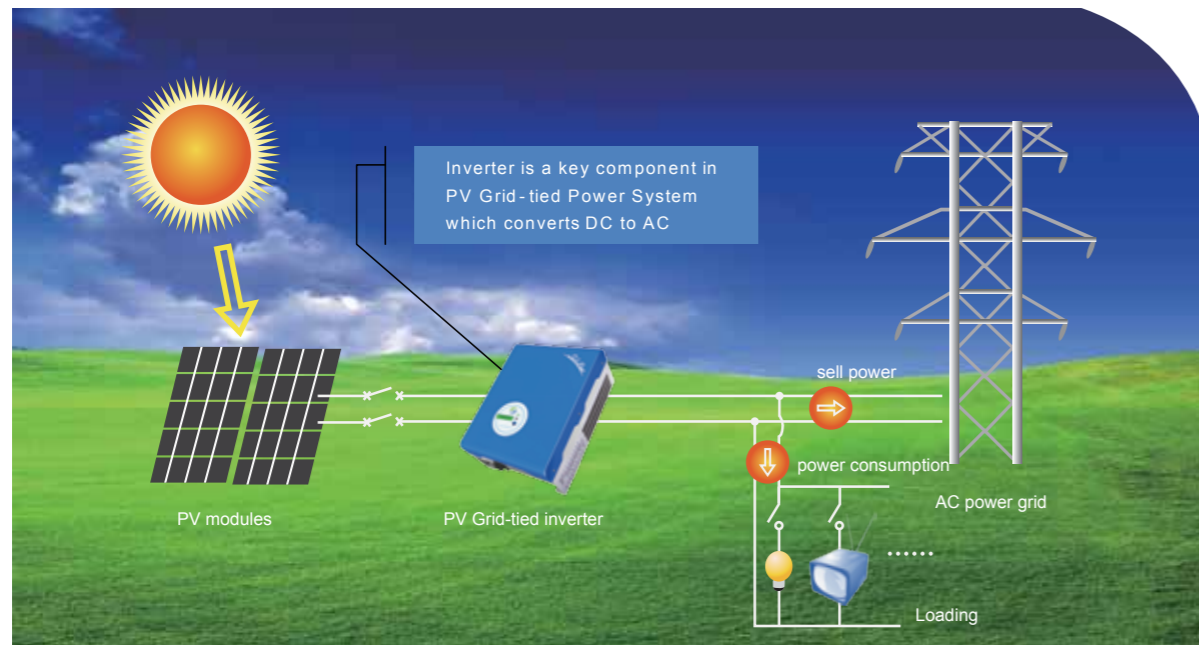


Accessories for PV System

- Solar Watcher / SolarPower Manager
- SolarEnvi Monitor
- SolarArray Combiner

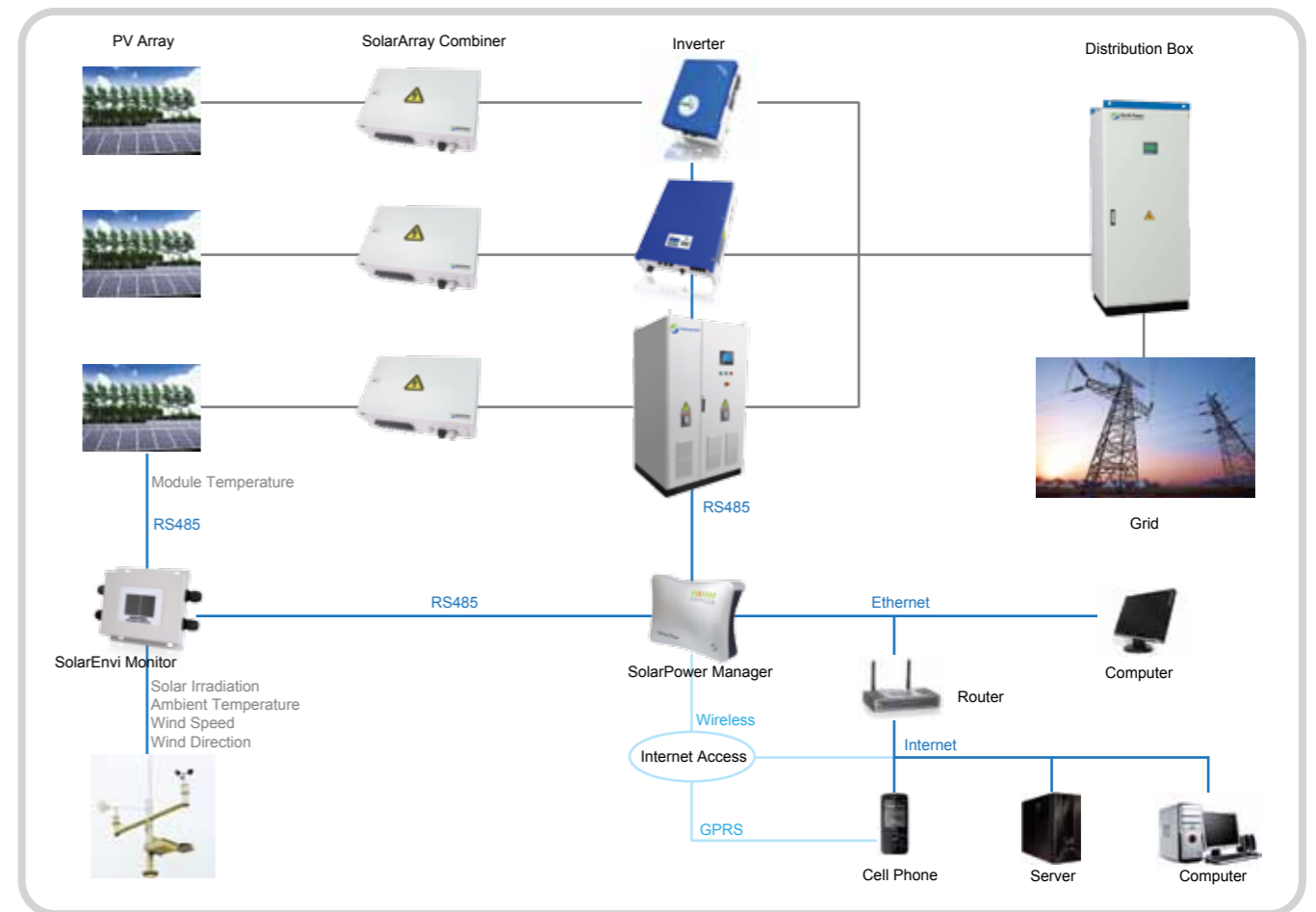


PV Grid-tied Power System



One supplier
for All PV Grid-tied systems

Structure of String Grid-tied System



VIPlant (www.v-iplant.com)
 Online monitoring

How to view your plant from your Android/iPhone system?

- Step 1: Go to <http://market.android.com> or App Store
- Step 2: Search VIPlant
- Step 3: Download and install it



Steps to benefit from VIPlant of Samil Power:

- Step 1: Create a user name and password from SAMIL POWER
- Step 2: Log in via www.samilpower.com
- Step 3: Select the plant you want to view



Convenient

- Central management of all customers and plants data
- Easy understanding report
- User and plant information maintenance
- World-wide access via the internet (use PC or mobile phones)

Informative

- Plant data monitoring
- Real time Data and historic data statistics of plant
- Data statistics of each inverter
- Maintenance of inverters

Personalization

- Individual yield and reports send via e-mail
- Use your IOS and Andriod system to view your plant anytime you want
- OEM is available for different levels of requirement

SolarRiver 1100TL / 1600TL / 2300TL / 3000TL (Single phase)

Features:

Leading-edge Technology

- Wide MPP voltage range
- Compact design
- Transformerless - minimizing size and weight
- MPPT efficiency: **99.9%**

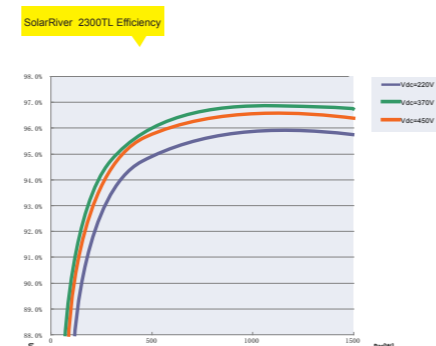
Flexibility

- Use for indoor or outdoor (IP65)
- "Plug and play" connection for easy installation and maintenance
- Multi-lingual display
- Easy configuration for different country grid standard

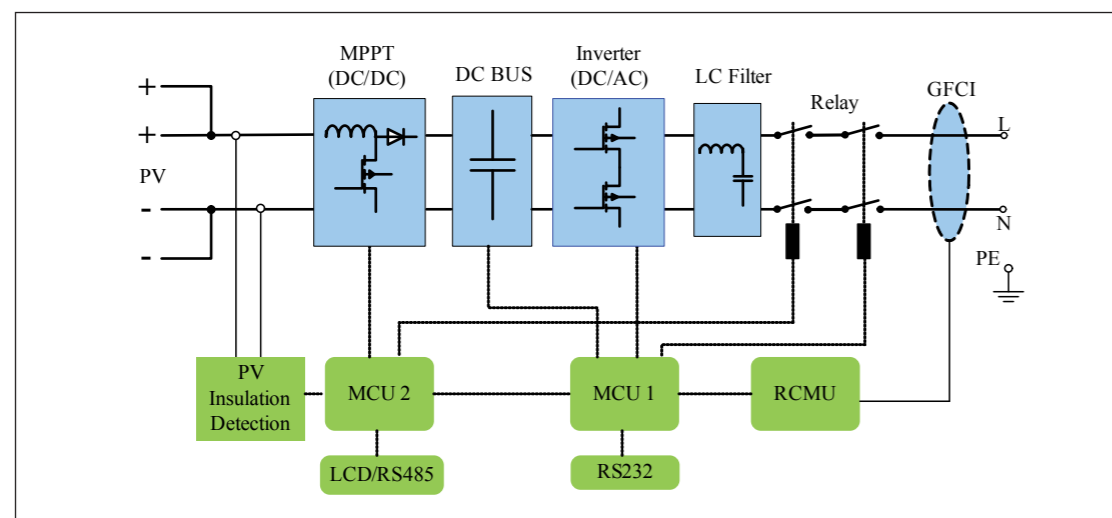
Built to last

Automatic protection including over voltage, islanding, short circuit,

- overload and under voltage, under load, etc.
- 5 years standard warranty, up to 25 years warranty extension



SolarRiver Topology



Datasheet

Inverter Model	SolarRiver 1100TL	SolarRiver 1600TL	SolarRiver 2300TL (SR2K2TLA1)	SolarRiver 3000TL (SR2K8TLA1)
Input (DC)				
Max. DC power [W]	1100	1600	2300	3000
Max. DC voltage [V]	500	500	550	550
Max. input current [A]	8.8	9.7	11	13.5
Number of MPP trackers / Strings per MPP tracker	1 / 1	1 / 1	1 / 1	1 / 1
MPPT voltage range at rated power [V]	120 ~ 425	160 ~ 425	200 ~ 500	210 ~ 500
Shutdown voltage / Start voltage [V]	70 / 100			
Output (AC)				
AC nominal power [W]	1000	1500	2000	2600
Max. AC power [W]	1000	1500	2200	2800
Max. AC current [A]	5.5	8.3	11	13.8
Nominal AC voltage / range [V]	230 / 180~270			
AC grid frequency / range [Hz]	50 / 47~52			
Power factor (cosφ)	1			
Total harmonic distortion (THDi) (at nominal power)	<3%			
Efficiency				
Max. efficiency	96.6%	96.8%	96.8%	97.0%
Euro efficiency	95.5%	96.0%	96.2%	96.3%
MPPT efficiency	99.9%			
General data				
Dimensions (W / H / D) [mm]	285 / 385 / 145	285 / 385 / 145	332 / 450 / 161	332 / 450 / 161
Weight [kg]	15	15	17.5	17.9
Operating temperature range [°C]	-20 ~ +60			
Ingress protection	IP65			
Topology	transformerless			
Internal consumption (night) [W]	0			
Cooling concept	Convection			
Noise (typical) [dB]	<28	<28	<30	<30
LCD display	Backlight, 16*2 Character LCD			
Communication port	RS232	RS232	RS485 / RS232	RS485 / RS232
Standard warranty [year]	5			
Inverter Model	SolarRiver 1100TL	SolarRiver 1600TL	SolarRiver 2300TL (SR2K2TLA1)	SolarRiver 3000TL (SR2K8TLA1)

SolarRiver 3300TL / 3500TL / 3700TL / 4400TL / 5200TL
(Single phase)

Features:

Leading-edge Technology

- Transformerless H6 Topology
- Wide MPP voltage range
- Compact design
- Max. efficiency: **97.6%**
- MPPT efficiency: **99.9%**

Flexibility

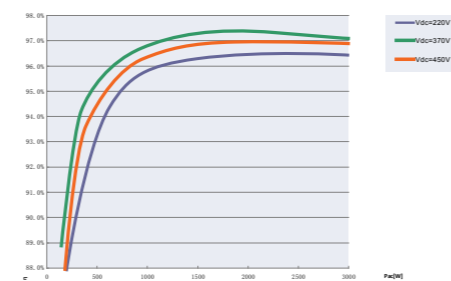
- Use for indoor or outdoor (IP65)
- "Plug and play" connection for easy installation and maintenance
- Multi-lingual display
- Easy configuration for different country grid standard

Built to last

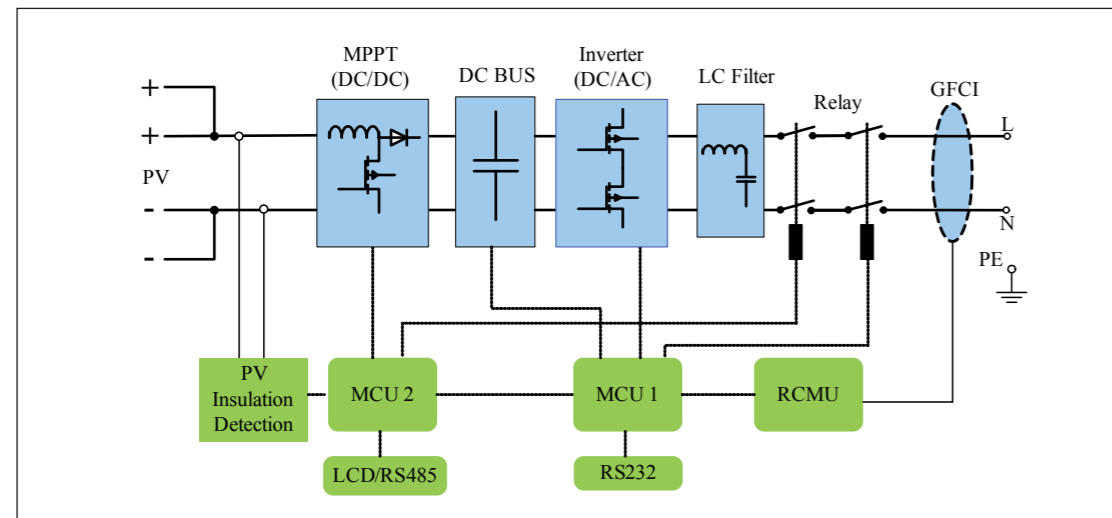
- Automatic protection including over voltage, islanding, short circuit, overload and under voltage, under load, etc
- 5 years standard warranty, up to 25 years warranty extension



SolarRiver 3300TL Efficiency



SolarRiver Topology



Datasheet

Inverter Model	SolarRiver 3300TL (SR3K3TLA1)	SolarRiver 3500TL	SolarRiver 3700TL	SolarRiver 4400TL (SR4K4TLA1)	SolarRiver 5200TL (SR5KTLA1)
Input (DC)					
Max. DC power [W]	3480	4580	4580	4580	5200
Max. DC voltage [V]	550				
Max. input current [A]	17.5	21	21	21	26
Number of MPP trackers /Strings per MPP tracker	1 / 2				
MPPT voltage range (at rated power) [V]	200 ~ 500				
Shutdown voltage /Start voltage [V]	70 / 100				
Output (AC)					
AC nominal power [W]	3000	3450	3680	4000	4600
Max. AC power [W]	3300	4400	4400	4400	5000
Max. AC current [A]	16	22	22	22	24
Nominal AC voltage / range [V]	230 / 180~270				
AC grid frequency / range [Hz]	50 / 47~52				
Power factor (cosφ)	1				
Total harmonic distortion (THDi) (at nominal power)	<3%				
Efficiency					
Max. efficiency	97.4%	97.6%	97.6%	97.6%	97.6%
Euro efficiency	96.5%	97.1%	97.1%	97.1%	96.8%
MPPT efficiency	99.9%				
General data					
Dimensions (W / H / D) [mm]	329 / 433 / 180				
Weight [kg]	18.9	19.2	19.2	19.2	19.4
Operating temperature range [°C]	-20~+60				
Ingress protection	IP65				
Topology	transformerless				
Internal consumption (night) [W]	0				
Cooling concept	Convection	Fan	Fan	Fan	Fan
Noise (typical) [dB]	<30	<40	<40	<40	<40
LCD display	Backlight, 16*2 Character LCD				
Communication port	RS485 / RS232				
Standard warranty [year]	5				
Inverter Model	SolarRiver 3300TL (SR3K3TLA1)	SolarRiver 3500TL	SolarRiver 3700TL	SolarRiver 4400TL (SR4K4TLA1)	SolarRiver 5200TL (SR5KTLA1)

SolarRiver 3400TL-D / 4000TL-D / 4500TL-D / 5000TL-D* / 5200TL-D
(Single phase)

Features:

Leading-edge Technology

- **Dual MPPT** for independent or parallel inputs mode (auto detecting)
- Wide MPP voltage range
- No fan design for higher reliability and lower noise
- Embedded DC switch (optional)

Flexibility

- Tool-free DC connector for easy installation and maintenance
- RS485,GPRS,WiFi and Ethernet communication for more flexible configuration and monitoring
- Use for indoor or outdoor (IP65)
- 3.5 inch TFT LCD display and Multi-lingual display
- Grid protection standard setting is more convenient and safer by using service password

Built to last

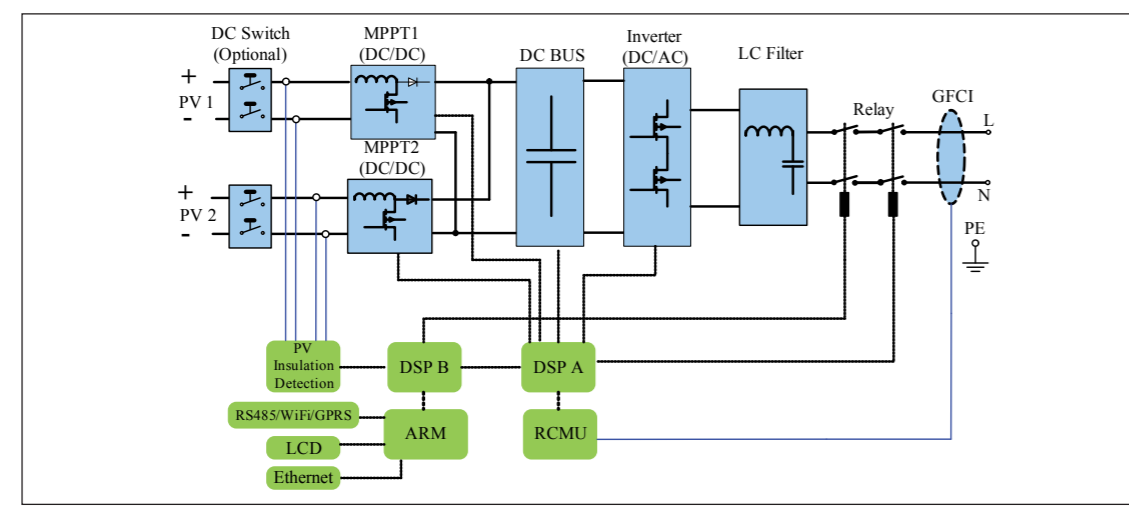
- Anti-theft protection
- 5 years standard warranty, up to 25 years warranty extension

Certificates

- Comply with **NEW CEI 0-21** (Italy) ,**VDE AR-N4105** (Germany), **AS4777,G83/G59, C10/C11**,ect. (18 countries' Grid Standard)



SolarRiver Topology



Datasheet

Inverter Model	SolarRiver 3400TL-D	SolarRiver 4000TL-D	SolarRiver 4500TL-D	SolarRiver 5000TL-D*	SolarRiver 5200TL-D
Input (DC)					
Max. PV power [W]	3400	4000	4500	5000	5200
Max. DC voltage [V]	550				
Max. input current [A]	10.5/10.5	12/12	13.5/13.5	15/15	15/15
Number of MPP trackers Strings per MPP tracker	2 / 1				
Max power of Track 1/Track 2 [W]	2200/2200	2500/2500	2750/2750	3000/3000	3100/3100
MPPT voltage range (at rated power) [V]	160~500	160~500	165~500	175~500	175~500
DC Switch	optional				
Shut down voltage /Start voltage [V]	60 / 100				
Output (AC)					
AC nominal power [W]	3000	3680	4000	4600	4600
Max. AC power [W]	3200	3680	4300	4600	5000
Max. AC current [A]	16	16	22	23	24
Nominal AC voltage / range [V]	230 / 180~270				
AC grid frequency / range [Hz]	50 / 47~52				
Power factor (cosφ)	0.8 lagging ~ 0.8 leading				
Total harmonic distortion (THDi) (at nominal power)	<3%				
Efficiency					
Max. efficiency	97.4%	97.6%	97.6%	97.6%	97.6%
Euro efficiency	96.5%	97.1%	97.1%	97.1%	97.1%
MPPT efficiency	99.9%				
General data					
Dimensions (W / H / D) [mm]	520 / 380 / 175				
Weight [kg]	23	25			
Operating temperature range [°C]	-20 ~ +60				
Ingress protection	IP65				
Topology	transformerless				
Internal consumption (night) [W]	<3				
Cooling concept	Convection				
Noise (typical) [dB]	<30				
LCD display	3.5 inch TFT LCD				
Communication	RS485, GPRS, WiFi and Ethernet communication				
Standard warranty [year]	5				
Inverter Model	SolarRiver 3400TL-D	SolarRiver 4000TL-D	SolarRiver 4500TL-D	SolarRiver 5000TL-D*	SolarRiver 5200TL-D

* SolarRiver 5000TL-D is for the country which restrict power of single phase to 4600W. Such as Germany

SolarLake 10000TL / 12000TL / 15000TL / 17000TL
(Three phase)

Datasheet

Features:

Leading-edge Technology

- DC input voltage up to 1000v
- Dual MPPT inputs accommodating wide voltage range
- Transformerless - minimizing size and weight
- Maximum Efficiency **98%**
- Integrated DC switch

Flexibility

- Use for indoor and outdoor (IP65)
- "Plug and play" connection for easy installation and maintenance
- Multi-lingual display
- Easy configuration for different country grid standards

Built to Last

- Automatic protection against over/under voltage, over/under load, islanding, short circuit, etc.
- 5 years standard warranty, up to 25 years warranty extension

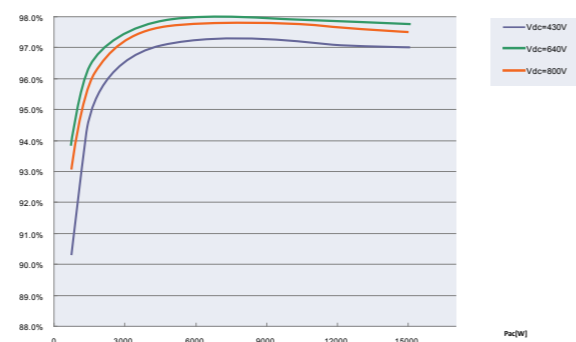
Certificates

- Comply with **NEW CEI 0-21** (Italy) , **VDE AR-N4105** (Germany), **AS4777,G83/G59, C10/C11**,ect. (18 countries)

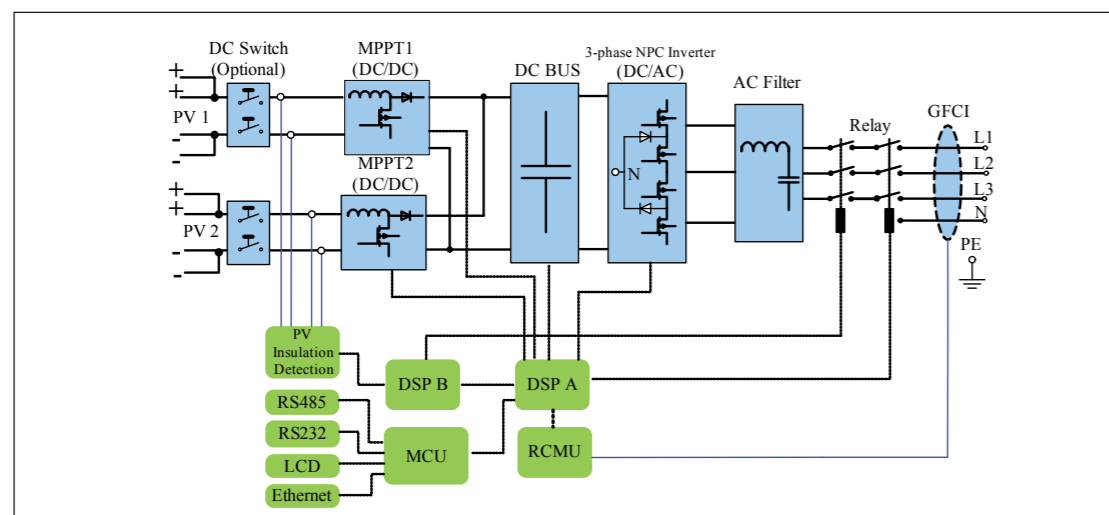
Ideal for commercial project



SolarLake 17000TL Efficiency



SolarLake 17000TL Topology



Inverter Model	SolarLake 10000TL	SolarLake 12000TL	SolarLake 15000TL	SolarLake 17000TL
Input (DC)				
Max. PV power [W]	11500	13800	17300	19600
Max. DC power [W]	10400	12500	15600	17700
Max. DC voltage [V]	1000	1000	1000	1000
Max. input current [A]	A: 16 / B:16	A: 16 / B:16	A:20 / B:20	A:20 / B:20
Number of MPP trackers / strings per MPP tracker	2 / 2			
MPPT voltage range (at rated power) [V]	320~800	380~800	380~800	430~800
Shutdown voltage / Start voltage [V]	160 / 210			
Output (AC)				
AC nominal power [W]	10000	12000	15000	17000
Max. AC power [W]	10000	12000	15000	17000
Max. AC current [A]	16	19.2	24	25
Nominal AC voltage [V]	3 / N / PE,230 / 400			
AC grid frequency / range [Hz]	50			
Power factor (cosφ), adjustable	0.9 leading ... 0.9 lagging			
Total harmonic distortion (THDi)	<3%			
Efficiency				
Max. Efficiency	97.9%	97.9%	98.0%	98.0%
Euro-efficiency	97.4%	97.4%	97.6%	97.6%
MPPT efficiency	99.9%			
General data				
Dimensions(W / H / D) [mm]	520 / 716 / 230			
Weight [kg]	50			
Operating temperature range [°C]	-20~+60			
Ingress protection	IP65			
Topology	Transformerless			
Internal consumption(night) [W]	<5			
Cooling concept	Fan			
Noise (typical) [dB]	<47			
Display	3.5 inch, TFT-LCD			
Communication port	Ethernet/ RS232/ RS485			
Standard warranty [year]	5			
Grid management	Yes			
DC switch	Integrated			
Inverter Model	SolarLake 10000TL	SolarLake 12000TL	SolarLake 15000TL	SolarLake 17000TL

SolarOcean 100 / 250 / 100TL / 250TL / 500TL
(Central Inverter)

Features:

Leading-edge technology

- Max. Efficiency **98.6%**
- Wide DC voltage
- Using effective IGBT power module
- Optimal MPPT technology
- Suitable for applications under harsh power grid conditions
- Low frequency transformer for isolation
- Advanced DSP digital control techniques
- Cost-effective guarantee for the PV power plant system

Flexibility

- Easy for local setting
- Multi-lingual LCD monitoring
- Multi-communication interfaces
- Friendly interface, easy to install and maintain

Reliability

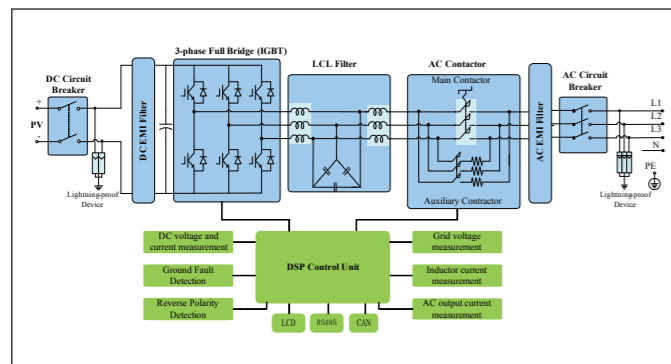
- Comprehensive protection for overvoltage, islanding, short-circuit, overloading, overheating, etc. (18 protections)

Certificates

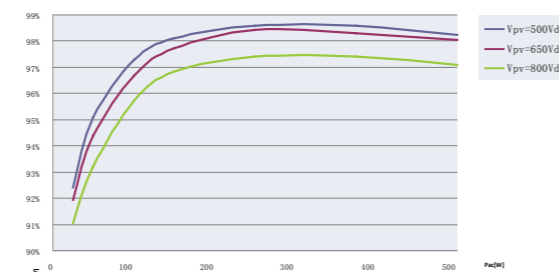
- Comply with India, Italy, Spain and China grid standard



SolarOcean 500TL Topology



SolarOcean 500TL Efficiency



Datasheet

Inverter Model	With Transformer		Without Transformer		
	SolarOcean 100	SolarOcean 250	SolarOcean 100TL	SolarOcean 250TL	SolarOcean 500TL
Input (DC)					
Max. DC power(@ cos φ=1)	115 kW	285 kW	115 kW	285 kW	570 kW
Max. DC voltage	880 V / 1000 V (optional)		880 V / 1000 V (optional)		
MPPT voltage range	450 V - 820 V		450 V - 820 V		
Minimum input voltage	450 V		450 V		
Max. input current	250 A	600 A	250 A	600 A	1200 A
Number of independent MPP inputs	1		1		
Number of DC inputs	2	8	2	8	4+8
Output (AC)					
Nominal AC power	100 kW	250 kW	100 kW	250 kW	500 kW
Max. AC power	110 kW	275 kW	110 kW	275 kW	550 kW
Nominal AC voltage / range	400 V / 360 V - 440 V		270 V / 243 V - 297 V		
AC power frequency / range	50 Hz / 45 Hz ... 55 Hz		50 Hz / 45 Hz ... 55 Hz		
Rated power frequency / rated power voltage	50 Hz / 400V		50 Hz / 270 V		
Max. output current	160 A	400 A	235 A	590 A	1200 A
Total harmonic distortion (THDi) at nominal power	<3%		<3%		
Power factor (cosφ)	0.9lagging...0.9leading		0.9lagging...0.9leading		
Efficiency					
Max. efficiency	97.1%	96.8%	98.0%	98.1%	98.6%
European efficiency	96.3%	96.0%	97.7%	97.5%	98.3%
MPPT efficiency	99.9%		99.9%		
Protection					
Input side disconnection device	DC circuit breaker		DC circuit breaker	DC circuit breaker	Motor-driven switch-disconnector / circuit
Output side disconnection device	AC circuit breaker		AC circuit breaker	AC circuit breaker	Motor-driven switch-disconnector / circuit
DC overvoltage protection / AC overvoltage protection	Surge arrester type II / surge arrester type II		Surge arrester type II / surge arrester type II		
Grid monitoring	Yes		Yes		
Ground fault monitoring	Optional		Optional		
Insulation monitoring	Optional		Optional		
Surge arrester for auxiliary supply	Yes		Yes		
Protection class (as per IEC 62103) / overvoltage category (as per IEC 60664-1)	I / III		I / III		
General data					
Topology	Industrial frequency transformer		Transformerless		
Dimensions (W / H / D)	1160 / 1970 / 900 mm	2200 / 2180 / 850 mm	1160 / 1970 / 900 mm	2200 / 2180 / 850 mm	2600 / 2180 / 850 mm
Weight	935 kg	2200 kg	530 kg	1700 kg	2300 kg
Operating temperature range	-20 °C ... +50 °C		-20 °C ... +50 °C		
Acoustic noise level	65 db(A)	65 db(A)	65 db(A)	65 db(A)	65 db(A)
Max. self-consumption (in operation) / self-consumption (at night)	500 W / <100 W	1000 W / <100 W	500 W / <100 W	1000 W / <100 W	1500 / <100 W
External auxiliary supply voltage	230 / 400 V (L-N-PE/ L-L-PE)		230 / 400 V (L-N-PE/ L-L-PE)		
Cooling concept	Forced fan cooling		Forced fan cooling		
Degree of protection	IP20		IP20		
Application	Protected indoors		Protected indoors		
Maximum permissible value for relative humidity (non-condensing)	5 % ... 95 %		5 % ... 95 %		
Maximum operating altitude	3000 m		3000 m		
Fresh air consumption	4500 m³/h	8000 m³/h	4500 m³/h	8000 m³/h	15000 m³/h
DC terminal	Terminal block	Busbar	Terminal block	Busbar	Busbar
AC terminal	Terminal block	Busbar	Terminal block	Busbar	Busbar
Display	Touch screen LCD		Touch screen LCD		
Communication interface	RS485 / CAN		RS485 / CAN		
Standard warranty	5 year		5 year		
Grid management	Yes		Yes		
Inverter Model	SolarOcean 100	SolarOcean 250	SolarOcean 100TL	SolarOcean 250TL	SolarOcean 500TL

SolarArray Combiner

For large scale grid-tied PV systems, a DC combining device is installed between the PV arrays and the inverters to minimize the cable length, increase reliability and stability. This device also simplify maintenance by reducing the connections between PV modules and the inverter.

The DC Combiner box achieves this by grouping multiple source circuits from a PV array to a single DC source which is then fed directly into the inverter. Beyond this grouping function, the DC combiner also includes protection devices to significantly increase long term reliability for the PV system as a whole.

SolarArray Combiner-1 Features:

- Meet the basic features of PV array combiner box
- Positive feed fuse for each string of PV array and anti-reverse function
- Lightning proof protection
- IP65 reinforced polyester enclosure for 2,4,6,8 string version
- IP65 painted steel enclosure for 10,12,16 string version



SolarArray Combiner-2 Features:

- Positive and negative fuses for each string of PV array, overvoltage protection and anti-reverse function
- Data collection function: Real-time monitoring and display of the string input current and output voltage
- Equipped with RS485 communication port
- Positive and negative feed lightning-proof protection after input grouping
- IP65 reinforced polyester enclosure for 6,8 string version
- IP65 painted steel enclosure for 10,12,16 string version



Datasheet

Model	SAC-2C-A1	SAC-4C-A1	SAC-6C-A1	SAC-8C-A1	SAC-10C-A1	SAC-12C-A1	SAC-14C-A1	SAC-16C-A1
Max. input strings number	2	4	6	8	10	12	14	16
Input cable size	4mm ²	4mm ²	4mm ²	4mm ²	4mm ²	4mm ²	4mm ²	4mm ²
Output cable size	≥6mm ²	≥10mm ²	≥16mm ²	≥25mm ²	≥35mm ²	≥35mm ²	≥50mm ²	≥70mm ²
Grounding cable size	≤16mm ²	≤16mm ²	≤16mm ²	≤16mm ²	≤16mm ²	≤16mm ²	≤16mm ²	≤16mm ²
Max. output current	20A	40A	60A	80A	100A	120A	140A	160A
Number of SPD	3	3	3	3	3	3	3	3
Ingress protection	IP65	IP65	IP65	IP65	IP65	IP65	IP65	IP65
Output water-proof terminal	PG13.5	PG13.5	PG13.5	PG16	PG21	PG21	PG29	PG29
Humidity	0-99%	0-99%	0-99%	0-99%	0-99%	0-99%	0-99%	0-99%
Cooling method	Natural cooling	Natural cooling	Natural cooling	Natural cooling	Natural cooling	Natural cooling	Natural cooling	Natural cooling
Material	polyester	polyester	polyester	steel	steel	steel	steel	steel
Operating temperature range	-30C-70C	-30C-70C	-30C-70C	-30C+70C	-30C+70C	-30C+70C	-30C+70C	-30C+70C
Dimension (W*H*D)[mm]	280×280×130	400×300×150	400×300×150	380×380×210	600×380×210	600×380×210	600×380×210	600×380×210
Weight(kg)	8	10	10	18	18	18	18	18

Model	SAC-6C-A2	SAC-8C-A2	SAC-10C-A2	SAC-12C-A2	SAC-14C-A2	SAC-16C-A2
Max. input strings number	6	8	10	12	14	16
Input cable size	4mm ²	4mm ²	4mm ²	4mm ²	4mm ²	4mm ²
Output cable size	≥16mm ²	≥25mm ²	≥35mm ²	≥35mm ²	≥50mm ²	≥70mm ²
Grounding cable size	≤16mm ²	≤16mm ²	≤16mm ²	≤16mm ²	≤16mm ²	≤16mm ²
Max. output current	60A	80A	100A	120A	140A	160A
Number of SPD	3	3	3	3	3	3
Ingress protection	IP65	IP65	IP65	IP65	IP65	IP65
Output water-proof terminal	PG13.5	PG16	PG21	PG21	PG29	PG29
Humidity	0-99%	0-99%	0-99%	0-99%	0-99%	0-99%
Cooling method	Natural cooling	Natural cooling	Natural cooling	Natural cooling	Natural cooling	Natural cooling
Material	polyester	steel	steel	steel	steel	steel
Operating temperature range	-30C+70C	-30C+70C	-30C+70C	-30C+70C	-30C+70C	-30C+70C
Dimension (W*H*D)[mm]	400×500×200	400×500×210	600×600×210	600×600×210	600×600×210	600×600×210
Weight(kg)	12	22	22	22	22	22

SolarPower Manager

(Global GPRS monitoring system + Data Logger)

The SolarPower Manager is the communication centre of the PV power system, monitoring the system's operation, providing remote diagnostics and data acquisition. All data from the inverters that connected with the SolarPower Manager are available for continuous updating, providing real-time running status of the PV power system at all times.



Features:

Monitor function:

- Monitor the PV power system continuously
- Analysis and archiving of PV operation data by Microsoft Excel (PC and software needed)
- Monitor inverter status via GPRS connection
- Monitor data stored in database, with high security
- Remote access to browse logged data via any internet connection

Storage function:

- Detect and record system faults fully automatically
- Record and store PV power system data at preset time
- Record inverter PV/AC voltage, PV/AC current, PV/AC power, AC frequency, energy today, total yield, etc.
- 2 Gigabyte SD card for storing and recording data. These data can be transferred from SD card to computer via USB2.0 connection, so that captured data can be analysed even if they are off-line.
- Three LED indicators confirm the GPRS connection, RS232/RS485 connection and power supply status.
- Easy installation; via optional connection port: RS232 or RS485
- Data diagnostics and system configuration by PC

Datasheet

■ SolarPower Manager

■ Interfaces

Inverter Communication	RS485 (up to 32 inverters, max. 1200m cable)
Ethernet	10/100M LAN
Wireless	GPRS

■ Storage

Internal Storage	32MB in a ring memory configuration
External Storage	SD card 2GB

■ Mechanical Data

Width/Height/Depth	222 /153/45 mm
Weight	720g

■ Power Supply

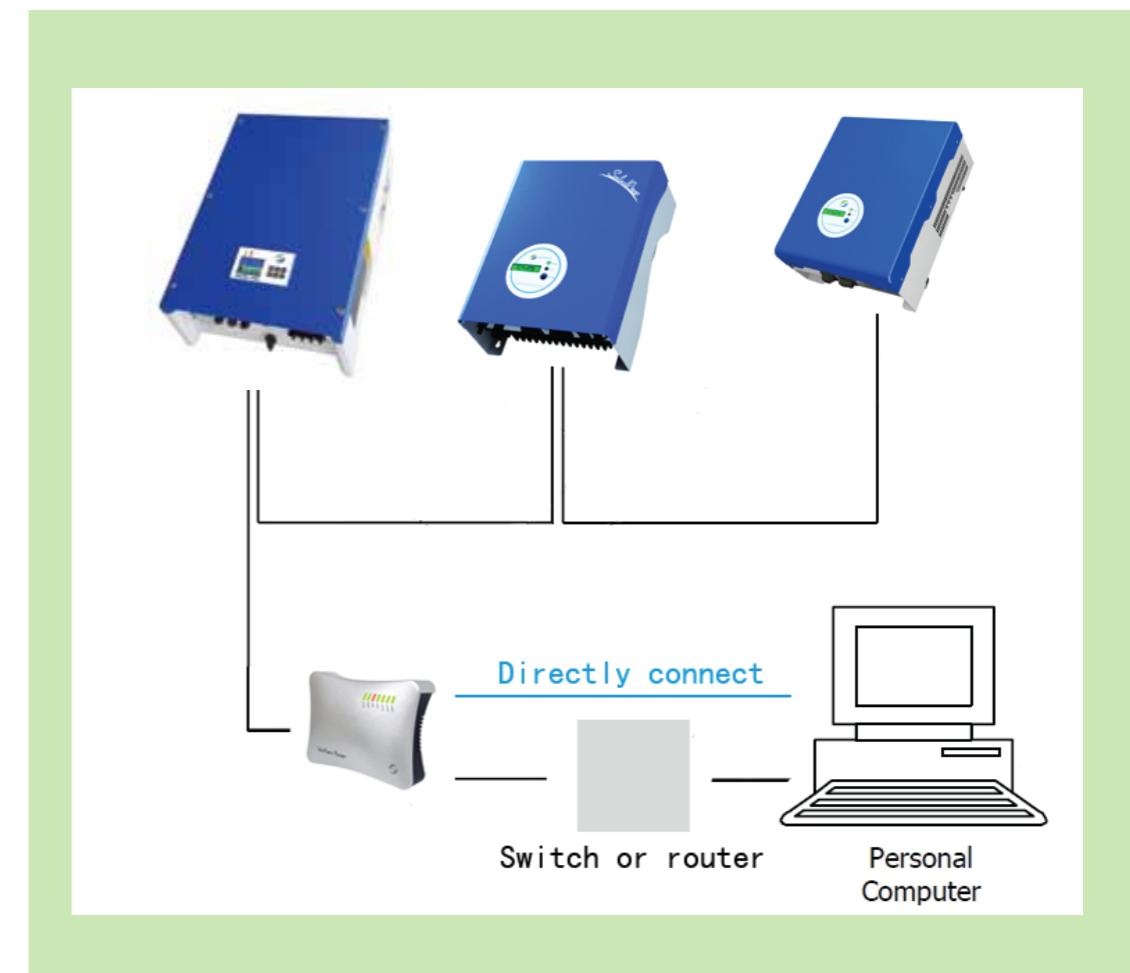
Plug-in Power Supply	115V-230V 50/60Hz
Power Consumption	3W (Typ.)/10W (Max.)

■ Operation Conditions

Ambient Temperature	-20°C~+55°C
Relative Air Humidity	5%~95%, non-condensing

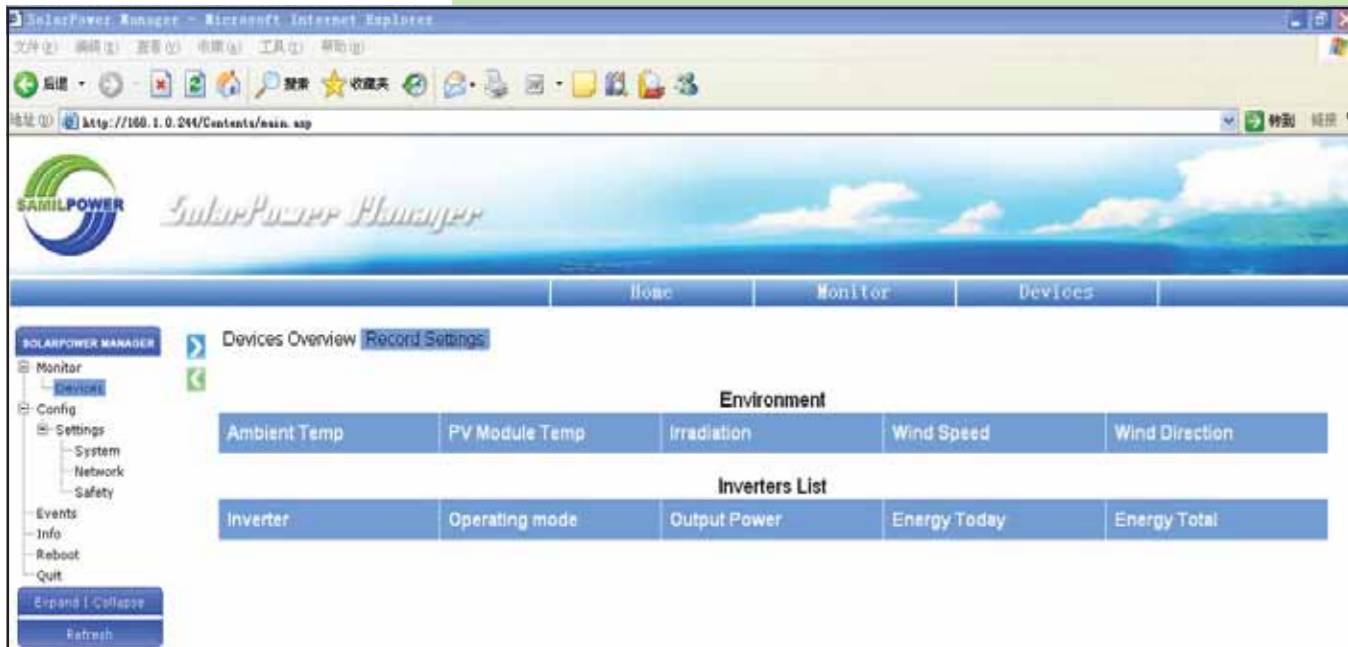
■ Other Data

Status Display	Built-in LED
Installation	Din Rail Installation, Wall-mounting, Tabletop Device



SolarPower Manager

SolarEnvi Monitor
(The weather station for your solar power system)



The SolarEnvi Monitor is an environment-monitoring device developed by Samil Power Co., Ltd. specifically for PV plants. With the SolarEnvi Monitor and the external sensors, environmental data can be collected and used to make a comprehensive performance analysis of the PV system.

The SolarEnvi Monitor has a small integrated solar module to measure solar irradiation and two external platinum sensors to measure ambient and module temperature. Wind speed and wind direction can also be measured with optional sensors.

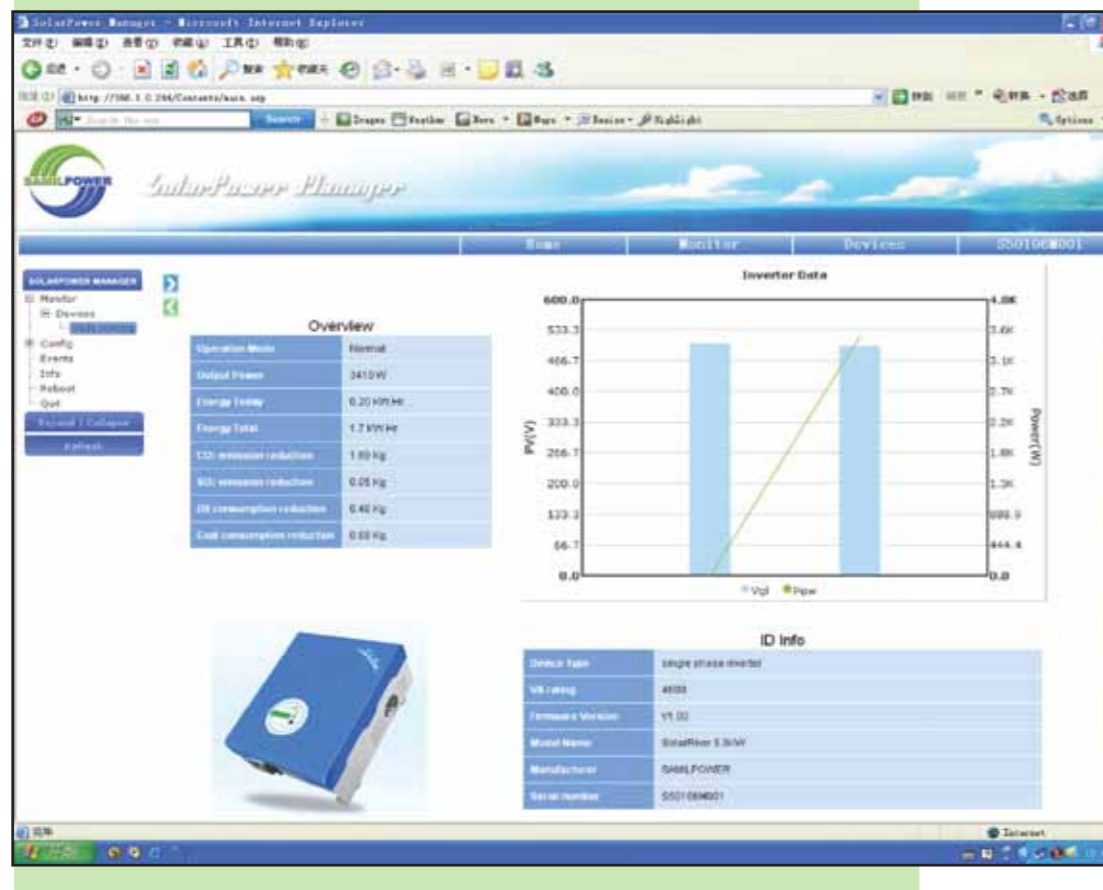
The SolarEnvi Monitor transfers the sensor data to the SolarPower Manager through a RS485 communication interface; the SolarPower Manager acts as a server so that sensor data can be read via the web.

Features

- Comprehensive performance analysis of the PV power system
- Precise acquisition of solar irradiation, module temperature, ambient temperature, wind speed and wind direction values
- Communication with the SolarPower Manager via RS-485
- Easy to install on the PV power system

▲ Log in page

▶ Data view via web interface



Datasheet

■ SolarEnvi Monitor

■ Interfaces			
Data Logger Communication		RS-485	
■ Sensors			
Solar Irradiation		Precision: ±8% Range: 0~1500W/m ²	■ Power Supply
Module Temperature(PT100)		Precision: ±0.5°C Range: -20°C~+100°C	External Power Adaptor
Ambient Temperature(PT100)		Precision: ±0.5°C Range: -20°C~+100°C	Protection Degree
Wind Speed		Precision: ±(0.3+0.03V)m/s Range: 0~75m/s	■ Mechanical Data
			Wind Direction
			Precision: ±3° Range: 0~360°
			Weight
			500g

References



◀ 200MW project in Golmud Qinghai, China



▲ 100kW project in Torino, Italy



▲ 1200kW project in Venice, Italy



▲ 125kW project for school in Surabaya, Indonesia



10kW rooftop project in Daufenbach, Germany



▲ 90kW project in Piemonte, Italy



▲ 1MW project in Macedonia



◀ Project in France



◀ 102kW project in Italy



◀ Project in South Australia ▶



Certificates



European Union Products Safety Certificate



Products International Standard Certificate



TüV is a safety certificate for component products made by Germany



Golden solar certificate is the best authoritative solar certificate in China



VDE is one of the certificate institutes owned high reputation in Europe

18 Countries Grid standard Applied



Membership



Patents



Samil Power System Design

Sample of 10kW Configuration



Wide Application

- Include all technical data of SolarRiver, SolarLake and SolarOcean series inverters
- Over 90% of all panel/module brands and their technical data
- World major cities' annual sunshine radiation data
- Calculate sunshine radiation of PV panels at any position/angle
- Figure out the optimum PV array angle based on the radiation statistics, maximizing the annual power generation

Simple to Use

- Providing one-minute system design solutions, including sunshine radiation data of different installation sites (refer to NASA and others)
- Online report
- Free download from www.samilpower.com

Personalization

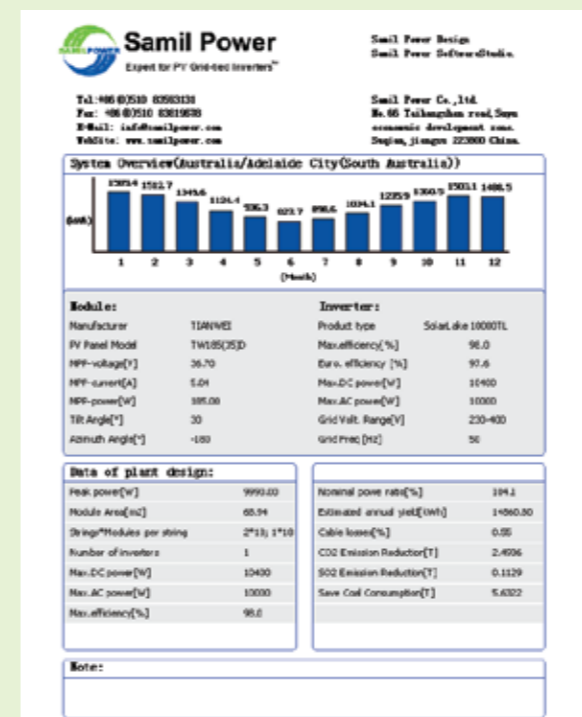
- Choice of different cable sizes to estimate cable length according to cable loss standards
- Update new panel specs by yourself
- Adaptable to OEM client's requirements



Step 3: See the cable calculation



Step 4: View the report



Step 5: The complete report with annual power yield analysis

Hardware (Minimal Requirement)

- P III 800MHz
- 128 MB Memory
- 1 G Hard Disk
- 1024 x 768 Pixel / 16-bit true color

System Requirement

- Windows NT 4.0
- Windows 2000
- Windows XP
- Windows Vista Pro
- Windows 7



Step 1: Choose the location and panels for your system




Step 2: Choose inverters

Why Samil Power

- ※ Capital: 12 million euros
- ※ Production Capacity: 4GW
- ※ Complete Product Range: 1kW - 500kW inverters
- ※ R&D Capacity: More than 150 R&D experts
- ※ Factory: State-of-the-art production facilities, complying with ISO9001:2008 & ISO14000:2004
- ※ Global Sales & Service Network: USA, Germany, Australia, Italy, France, UK, China
- ※ 10 – 15 days delivery
- ※ Insurance: All products are covered by product commercial liability insurance

We Guarantee your yield



Bankability

Macedonia 	Czech Republic 	Austria 
UK 	France 	

Service

- ※ 5-year standard warranty
- ※ Up to 25 years warranty extension
- ※ Worldwide service network
- ※ 48-hour service response

