

## Grid-Tied PV Inverter Series(UL)

Powerful Inverter for home and industrial applications

The design of this series inverter was advanced in close cooperation with universities and PV research specialists, and executed through constant communication with numerous PV system operators. This is the confidentiality of our products: the synthesis of ideas and requests that we get from people using photovoltaic's in practice. Complete customer satisfaction is our confidential key element.

The combination of forward-thinking originality and practical development makes this series inverter into one of the most powerful and user-friendly on the market. It is possible to realize consistently outstanding energy gains even when using them on situations with appropriate irradiance values.

### Features

- Quiet, efficient operation, utilizing high frequency solid-state design.
- Compact size and high power density.
- Heat sink keeps the unit clear and more efficient over time.
- DSP-controlled based with sophisticated control and self-diagnostic algorithms.
- High speed MPPT operation for real time power tracking and improved energy harvesting.
- Front panel LCD display shows system status and power production information.
- Communication RS-485 interface for remote power monitoring.
- DC disconnect switch meet NEC standard, Article 690.
- Transformer or Transformer-Less operation for highest efficiency.
- High overload capability.
- Certified grid connected operation according to UL1741 and IEEE1547.



Soleil-2000

SG-4000

### Specification

Model	Soleil-2000-US*	SG-2000-US*	SG-3000-US*	SG-4000-US*	SG-5000-US*	SG-2000TL-US*	SG-3000TL-US*	SG-4000TL-US*	SG-5000TL-US*
Technology	LF Transformer		HF Transformer			Transformer-Less			
<b>Capacity</b>									
Nominal Output Power	2000W	2000W	3000W	4000W	5000W	2000W	3000W	4000W	5000W
<b>Input</b>									
Nominal PV(MPPT) Voltage	300Vdc		360Vdc						
Maximum PV open Voltage	450Vdc		550Vdc						
MPPT Tranking Channel	1	1	1	1	2	1	1	1	2
Max. number of strings	2	2	2	2	2+2	2	2	2	2+2
MPPT Range	180~400Vdc		180~500Vdc			180~500Vdc			
MPPT Range @ Full Load	200~400Vdc		240~500Vdc			240~400Vdc			
Working Range	150~450Vdc		150~550Vdc			150~500Vdc			
System Start-up Voltage	150Vdc		150Vdc						
Maximum Input Current	10A	10A	15A	20A	25A	10A	15A	20A	25A
<b>Output</b>									
Operational Voltage	110Vac ; 115Vac 120Vac	208Vac ; 220Vac 230Vac ; 240Vac	208Vac ; 220Vac ; 230Vac ; 240Vac			208Vac ; 220Vac ; 230Vac ; 240Vac			
Operational Voltage Range	097~121Vac@ 110Vac 102~126Vac@ 115Vac 106~132Vac@ 120Vac	183~229Vac @ 208Vac 194~242Vac @ 220Vac 203~253Vac @ 230Vac 212~264Vac @ 240Vac	183~229Vac @ 208Vac 194~242Vac @ 220Vac 203~253Vac @ 230Vac 212~264Vac @ 240Vac			183~229Vac @ 208Vac 194~242Vac @ 220Vac 203~253Vac @ 230Vac 212~264Vac @ 240Vac			
Operational Frequency	49.3~50.5Hz@50Hz 59.3~60.5Hz@60Hz (Auto Sensing)		49.3~50.5Hz@50Hz 59.3~60.5Hz@60Hz (Auto Sensing)			49.3~50.5Hz@50Hz 59.3~60.5Hz@60Hz (Auto Sensing)			
Power Factor	> 0.99 @ full load		> 0.99 @ full load			> 0.99 @ full load			
Current Distortion	THD<5% , each harmonics <3%		THD<5% , each harmonics <3%			THD<5% , each harmonics <3%			
Maximum Efficiency	> 94% w/o LF ISO		> 95%			> 96%		> 96%	
CEC Efficiency	> 93% w/o LF ISO		> 94%			> 95%		> 95%	
Anti-Islanding	Yes		Yes			Yes			
<b>Environment</b>									
Protection Degree	NEMA 3R		NEMA 3R			NEMA 3R			
Safety	UL1741		UL1741 , IEEE1547			UL1741 , IEEE1547			
EMI	FCC Class B		FCC Class B			FCC Class B			
Operation Temperature	(-4 ~ +122°F) -20 ~ +50°C		(-13 ~ +122°F) -25 ~ +50°C			(-13 ~ +122°F) -25 ~ +50°C			
Humidity	0 ~ 100% RH		0 ~ 100% RH			0 ~ 100% RH			
Heat Dissipation	Convection cooled without fan		Convection cooled without fan			Convection cooled without fan			
Acoustic Noise Level	< 40dB @ 1m		< 40dB @ 1m			< 40dB @ 1m			
Display	2-line , 16-character LCD		2-line , 16-character LCD			2-line , 16-character LCD			
Communication	RS232(Standard) SNMP(Optional)		RS232 & RS485(Standard) SNMP(Optional)			RS485(Standard) SNMP,Zigbee,Bluetooth(Optional)			
Power Consumption(night)	< 0.5W		< 0.5W			< 0.5W			
PV Disconnect	Eliminates need for DC disconnect. Complies with NEC requirement		Eliminates need for DC disconnect. Complies with NEC requirement			Eliminates need for DC disconnect. Complies with NEC requirement			
<b>Mechanical</b>									
LxWxH(mm)	398 x 382 x 175		TBD		634 x 416 x 145		TBD		634 x 416 x 145
Weight(Kg)	15		TBD		25		TBD		30
Mounting	Wall Mount(mounting bracket included)		Wall Mount(mounting bracket included)			Wall Mount(mounting bracket included)			

Specifications subject to change without notice.

Note ~ \* : It means that countries. For example, US=America / CA=Canada / MX=Mexico / PE=Peru / BR=Brazil / CO=Colombia / HT=Haiti / CL=Chile.....etc.