

**SMART ENERGY SAVING
& HOME BACKUP**



RELIABLE
POWER
NETWORK



**SUN SGS SERIES
(3kW / 5kW)**

ENJOY ENERGY INDEPENDENT LIFE

With Energy Storage System + PV, it is now possible to effectively manage full energy cycle in your home through Self Generation - Storage - Consumption. Now you can enjoy a house full of energy with less electricity cost and secured power against outage, or join integrated energy sharing community.

Greater Energy Cost - Efficiency

Self-consumption

Think about this : During the day, PV is generating but no one is using, energy will be wasted without storage; however at night, you still buying energy as before because there is no Sunlight. SGS will allow you to use solar generation at night and truly minimize electricity you need to pay for.

Load Shifting (Peak Shaving)

Because of the rate fluctuation, your actual electricity cost will go up and down time to time. SGS provides charging / discharging time setting which will help you store cheaper power for later use and increase money saving.

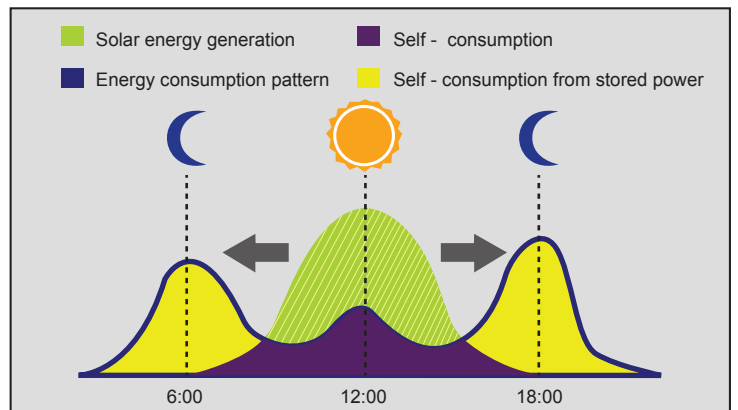
Operation Scheduling

Operation Scheduling
Being part of a community, rate fluctuation will affect your neighbors in the same way as it did to you. SGS allows you to decide discharging power and time; that means storage energy can be shared by neighbors and brings you additional income.

Benefit from self-consumption(example):
*Current electricity rate: 4Bath/kWh, daily consumption: 10kWh

No ESS Annual pay : $4 \times 10 \times 365 = 14600$ Bath	Install SGS 5kW, 7.5kWh Annual pay : $4 \times 10 \times 20\% \times 365 = 2920$ Bath
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First year estimate saving : 11680 Bath
If the electricity rate increases, you will save more in future years





Energy Network Interconnect

For our energy future, community based smart grid will be big part of utility structure. SGS supports remote real time energy dispatching communication; connect with a virtual power pool that serves all members.

Energy Backup (UPS Mode)

Energy blackout, which is unpredictable, can always cause problems no matter hours or minutes. SGS can work as energy backup unit, providing reliable power supply with always fully charged battery.



Manage Your Energy Anytime Anywhere

With Chuphotic App, you can manage and control your energy consumption and production. Download the Chuphotic App to your smartphone or tablet for access to your SGS smart energy system. The App allows you to monitor, analyze and control the supply and demand of your household or business anytime and anywhere.



CHUPHOTIC SUN SGS SERIER - for Your Energy Independence



User friendly

- Easy installation
- Ultra silent design, noise < 25dB
- Multiple battery configuration, support different battery types
- Flexible application for either new installation or retrofit



Reliable

- Water and dust proof (IP 65,) OK for outdoor use
- Cutting edge design and technology
- High quality componects maximize service life



Battery

- Easy compatible with Lithium - ion, Pb, Pb - C, Flow Battery etc.
- Wall mounted and rack - mounted optional



Efficient

- Maximum efficiency up to 97.8%
- Super wide MPPT range : 125Vdc - 580Vdc



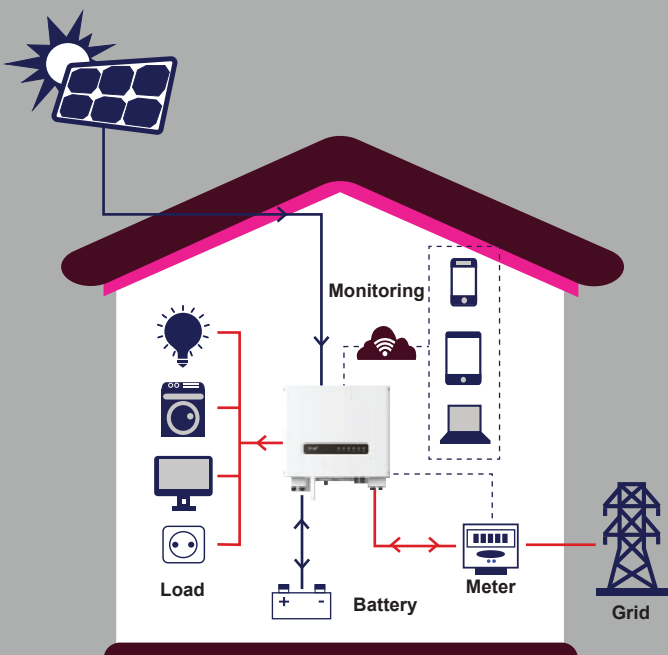
Intelligent

- Full automatic control, minimized daily operation
- APP available for monitoring and control
- Seamless transfer makes power outage un - realizable



Option

- CT or Smart Meter increase power control precision
- GPRS



Off-grid Application Compatible

In addition, SUN SGS Series can be installed in a completely off - grid application when no grid pwer is available; you can always be served by our system no matter in city or remote areas.

Power Export Control

SUN SGS Series gives you the right to adjust you system export power. If energy back feed is prohibited, system output will be adjusted according to load status and restrict power send to grid.

Technical Specification:

Items	SGS 3K	SGS 5K
PV Input		
PV Max Power (W)	4000	5500
Max Voltage (Vdc)	600	
MPPT Range (Vdc)	120-580	
Max Input Current (Vdc)	11x2	
MPPT Number / Strings	2/2(can be parallel)	
On-grid Output		
Rated Power (W)	3000(Max 3300)	5000
Rated Output Voltage (Vac)	220/230	
Grid Voltage Range (Vac)	198~242 (184~265 Option)	
Grid Frequency Range (Hz)	47.5-52.5 or 57.5-62.5	
Rated Output Current (A)	17	22.7
Power Factor	> 0.99 @Default Value(±0.8)	
Max Efficiency	Ongrid 98.1%	
Europe Efficiency	Ongrid 97.5%	
THDi (%)	<2%(Full load)	
Battery Inverter (Emergency Mode)		
Rated output Voltage (Vac)	220/230	
Output Frequency (Hz)	50/60 ± 0.5	
Output Power (W/VA)	2500(3500, 5000 option)	
Transfer time (ms)	0	
Max Efficiency (DC/AC)	95%	
Voltage Harmonic (%)	<2%(Ohmic load)	
Charge-Discharge		
Nominal Voltage (VDC)	48(42-60VDC)	
Max Charging Power (W)	2500(Settable)	
Max Charging Current (A)	52(Settable)	
Max Discharging Power (W)	2500	
Max Discharging Current (A)	52	
Battery Type	Lithium / Pb-C / VRLA / AGM / OPzV / OPzS / Solar Deep Cycle	
System		
Installation	Wall mounted	
Ingress Protection	IP65	
Dimension (WxHxD) (mm)	380x420x185 (480x420x185 Hybrid Optional)	
Weight (kg)	14(24kg Hybrid Optional)	
Isolation Method (solar)	Transformerless	
Isolation Method (battery)	HF	
Cooling	Natural cooling	
Noise Emission (dB)	<25	
Display	LED or LCD/APP	
Ambient Humidity	0-100%, non condensation	
Temperature (°C)	-25°C~+60°C	
Operation Altitude	0~3000m	
On-grid Standard	G83/2; G59/3; EN50438; CEI 0-21; AS4777.2:2015	
Safety	IEC62109-1, IEC62109-2, AS62040-1-1	
EMC	EN61000-6-3, EN61000-6-2	
Communication Interface	RS485(Modbus) / WiFi / DRM	
Accessories	CT, Smart meter (Optional)	

*Product specification are subject to change without further notice.

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