

Smart Energy Saving & Home Backup

SUN SGS Series (3,5kW)

- >> Flexible Energy Management
- >> Multi-working Modes Application
- >> Remote Energy Dispatching
- >> Uninterrupted Power Supply
- >> Export Energy Setting



Intelligent Communication:

- >> Monitoring through WiFi
- >> Cloud-base Monitoring Service
- >> RS485 and USB communication ports
- >> Accept remote energy dispatching

Smart Energy Management:

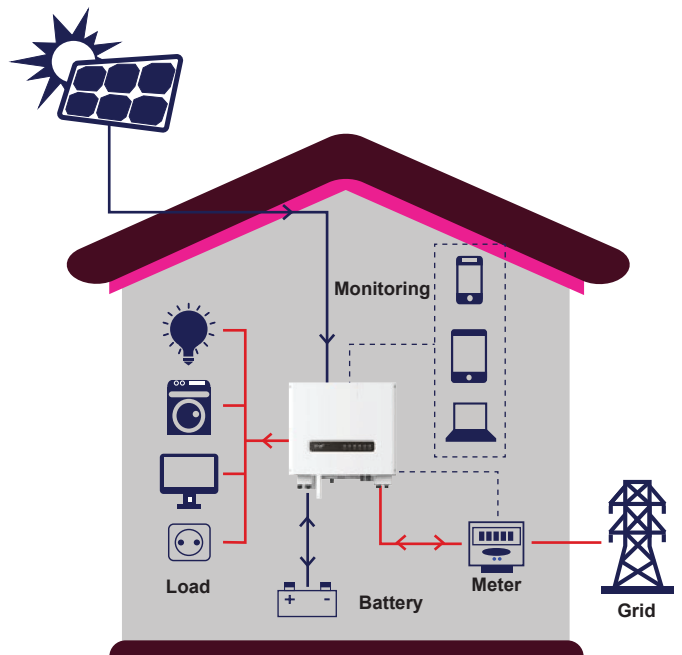
- >> Smart EMS for all operating modes
- >> Daily/Monthly/Total energy generation logs
- >> Settable modes for different application scenarios
- >> Maximize self-consumption, lower your bills

Lithium-ion Battery:

- >> Excellent performance for 10 years plus lifetime
- >> Capacity modularly extended from 2 to 10kWh
- >> Wall mounted and rack-mounted optional
- >> 48V design, intelligent BMS

Value-added Services:

- >> CT or Smart Meter increase power control precision
- >> Lead-acid/Pb-C battery for option
- >> Power distribution cabinet



Technical Specification:

Items	SGS 3K	SGS 5K
PV Input		
PV Max Power (W)	4000	5500
Max Voltage (Vdc)	550 Hybrid / 600 Ongrid	
MPPT Range (Vdc)	125-550 Hybrid / 120-580 Ongrid	
Max Input Current (Vdc)	11x2	
MPPT Number / Srings	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)	184~265	
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	97.50% / Ongrid 98.1%	
Europe Efficiency	96.50% / 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	
Transfer time (ms)	0	
Efficiency (DC/AC)	93.5%	
Voltage Harmonic (%)	<2%(Ohmic load)	
Charge-Discharge		
Nominal Voltage (VDC)	48	
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 / Lead acid	
System		
Installation	Wall mounted	
Ingress Protection	IP65	
Dimension (WxHxD) (mm)	480x420x185 Hybrid / 380x420x185	
Weight (kg)	25 Hybrid / Ongrid 14	
Isolation Method (solar)	Transformerless	
Isolation Method (battery)	HF	
Cooling	Natural cooling	
Noise Emission (dB)	<25	
Display	LED or LCD/APP	
Ambient Humidity	0-95%, 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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