

# SOG1-2.2kVA



## Features:

- Battery can be charged by both solar and grid, to make sure battery is always fully charged
- UPS function, to ensure house never out of electricity
- Standard AC socket, easier to install and use




**Technical Data**

Model		SOG1000	SOG1200	SOG2000	SOG2200
Capacity	VA/W	1000VA/800W	1200VA/1000W	2000VA/1600W	2200VA/1800W
Nominal battery voltage		12V <sub>DC</sub>		24V <sub>DC</sub>	
Utility grid mode					
Input	Nominal voltage	230V <sub>AC</sub>			
	Voltage range	170-280V <sub>AC</sub> (Narrow range)			
		90-280V <sub>AC</sub> (Wide range)			
	Normal frequency	50Hz or 60Hz			
Output	Voltage	230V <sub>AC</sub>			
	Frequency	Following the utility			
	Output waveform	Following the utility			
Efficiency		>95% (Full R load, Battery full charged)			
Transfer Time		15ms Typical, 40ms Max.			
Backup mode					
Output	Voltage	230V <sub>AC</sub> (+10% / -18%)			
	Frequency	50Hz or 60Hz (Auto detection)			
	Output waveform	Modified sine-wave			
Efficiency		>80%			
Overload protection		1min@>110%,20s@>120%,0s@>150%			
Protection		Discharge, Over-charged, Over-loading, Over-temperature,			
		Short-circuit protection			
Battery charger (powered by AC)					
Charging algorithm		3-Step charging			
AC charging mode		0A/5A/10A/20A Opt.		0A/5A/10A/15A Opt.	
Floating charging voltage		13.7V		27.4V	
Overcharging voltage		16V		32V	
Solar battery charger					
Max PV input power		900W	1050W	1500W	1750W
Max charging power		500W	600W	1000W	1200W
Max charging current		50Amp	60Amp	50Amp	60Amp
Optimal PV voltage range		16V~18V <sub>DC</sub>		30V~32V <sub>DC</sub>	
Max PV input voltage		55V <sub>DC</sub>			
Max PV input current		65 Amp			
Genaral					
Physical	Net dimension (W*H*D)	280 *250 *95mm			
	Gross dimension (W*H*D)	370*300*120mm			
	Net weight /Gross weight	2.16kg/2.66kg	2.38kg/2.88kg	2.38kg/2.88kg	2.4kg/2.9kg
Environment	Operating environment	0- 50°C, 5%-90 % Relative Humidity (Non-condensing)			
	Storage environment	-15°C to 55°C, 5% to 95% Humidity (Non-condensing)			
	Noise level	Less than 50dBA			