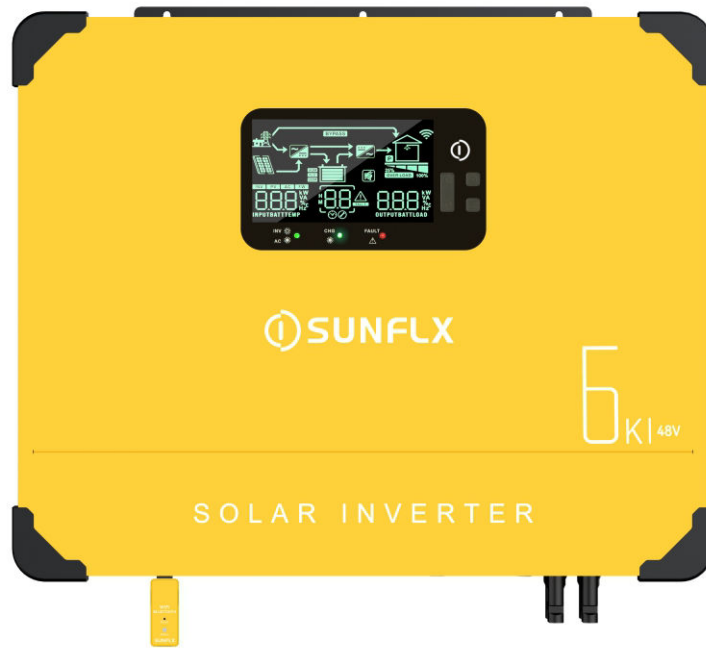


# Off Grid Solar Storage Inverter

SG 4200 Pro/SG 6000 Pro



IP54-rated design for dustproof and splash-resistant protection



Dual AC outputs for smart load management



Dual AC input (Grid/Generator) with integrated ATS



Compatible with lithium, lead-acid and GEL batteries



PV and AC dual activation



Built-in CT for zero export

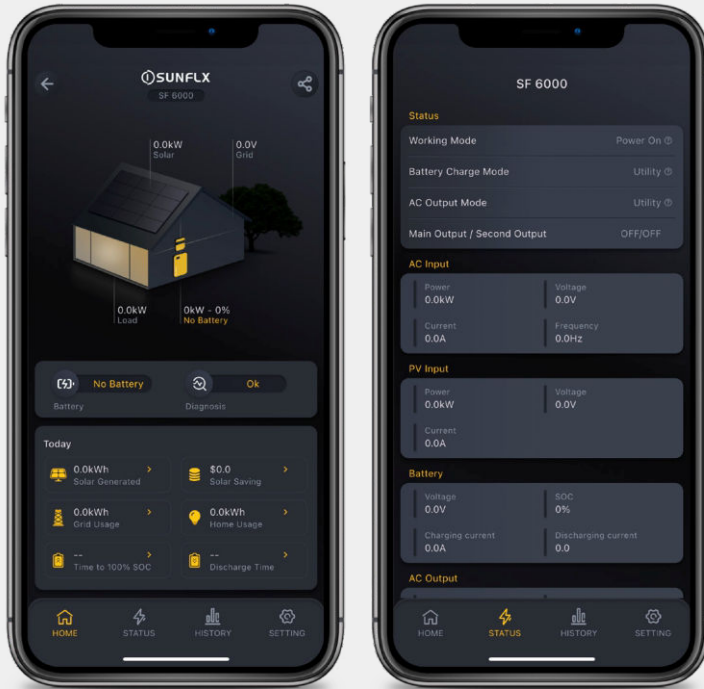


Plug-and-play quick connection MC4 PV terminals



Up to 12 units in parallel for capacity extension

# Work with Sunflx Cloud APP



 **Sunflx Cloud App**



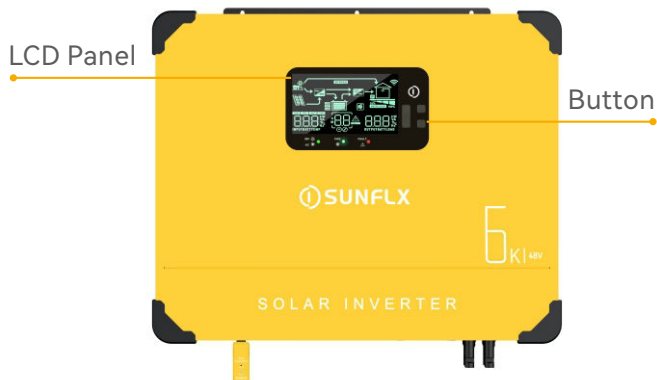
**Sunflx Cloud App is a Configure and Monitor App  
Now Available in App Store and Google Play**

Work with Sunflx Smart Dongle, supports both Bluetooth and Wi-Fi connection, which enables you managing your solar device with or without internet connection.

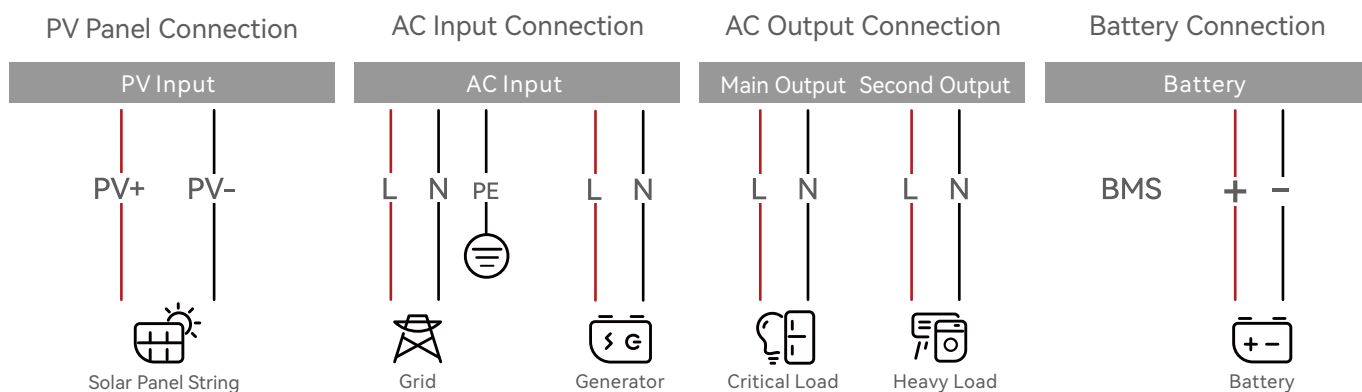
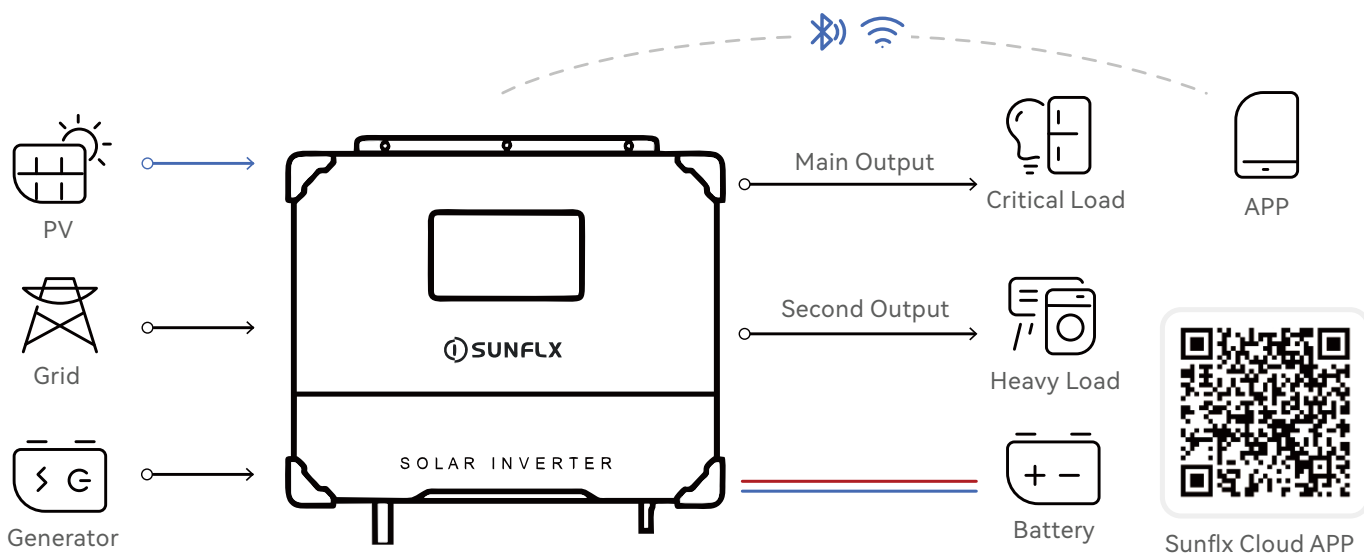
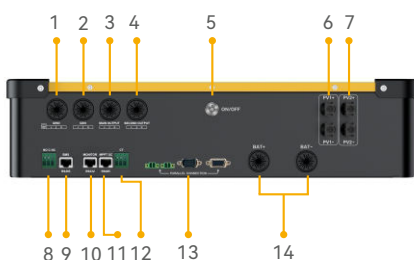
## Key Features )

- Real-Time Monitoring**  
Keep an eye on your solar equipment's live performance and system status.
- Easy Settings**  
Personalize your device settings to get the best out of your system.
- Demo Devices**  
Check out the demo library to explore Sunflx features and see what the products can do.
- Historical Data**  
View past data like power generation, energy use, and grid consumption to assess your system's performance.
- Firmware Updates**  
Update your device firmware with just one tap to stay up to date with the latest features.
- Status Sharing**  
Share your solar power achievements and savings with friends and spread the green lifestyle.
- Product Verification**  
Verify your products quickly to ensure they're genuine with Sunflx Cloud.

# Connection



- 1. Grid Connection
- 2. Diesel Generator Input
- 3. Main Output
- 4. Second Output
- 5. ON/OFF
- 6. PV1 Terminal
- 7. PV2 Terminal
- 8. Dry Connection
- 9. BMS Port
- 10. WIFI Connection
- 11. Solar Controller Connection
- 12. CT Connection
- 13. Parallel Connection
- 14. Battery Terminal



# Datasheet

Model	SG 4200 Pro	SG 6000 Pro	User-Settable
Nominal Battery Voltage	24Vdc	48Vdc	
Battery Type	Lithium LiFePO4/Lead-Acid/Flooded/User Defined		√
<b>AC INPUT</b>			
Nominal AC Input Voltage/Waveform	230Vac/Sinusoidal (Utility or Generator)		
AC Input Range	90~280Vac (Appliances); 170Vac~280Vac (UPS)		√
Nominal Input Frequency	50/60Hz (Auto Detection)		√
AC Input Frequency Range	40~65±1Hz (>42 or <63±1Hz Comeback)		
Max. Bypass Current	40Amp		
Output Short Circuit Protection	Circuit Breaker		
Transfer Time	10ms Typical (UPS); 20ms Typical (Appliances)		
<b>AC CHARGER</b>			
Charging Algorithm	3-Step		
Max. AC Charging Current	100Amp (@VI/P=230Vac)		√
Bulk Charging Voltage	29.2Vdc (Flooded Battery); 28.2Vdc (AGM/Gel Battery)	58.4Vdc (Flooded Battery); 56.4Vdc (AGM/Gel Battery)	√
Floating Charging Voltage	27Vdc	54Vdc	√
Max. Hybrid Charging Current (Solar & Utility)	120Amp		√
<b>PV INPUT</b>			
Num. of Independent MPPT Tracker	1		
Num. of String Per MPPT Tracker	1	2	
MPPT Input Current	1*18Amp	1*32Amp	
Max. PV Array Power	6000W	8000W	
Max. Solar Charge Current	120Amp		√
PV Array MPPT Voltage Range	60~450Vdc		
Max. PV Array Open Circuit Voltage	500Vdc		
MPPT Tracking Efficiency	99.9%		
<b>INVERTER OUTPUT</b>			
Num. of Output Ports (Main & Second Output)	2		
Rated Output Power of Main/Second Output* <sup>(1)</sup>	4200W/4200W	6000W/6000W	
Surge Capacity	8400VA/8400W for 5 Seconds	12000VA/12000W for 5 Seconds	
Output Voltage Waveform	Pure Sine Wave		
Overload Protection	5s@150% Load; 10s@110%~150% Load		
Output Voltage	220/230/240 Vac ± 5%		
Output Frequency	50/60Hz ±1Hz		
Peak Efficiency	94%		
Low Voltage Cut-off Voltage	21Vdc	42Vdc	√
High Voltage Cut-off Voltage	33Vdc	63Vdc	
Cold Start Voltage (When Only Connect with Battery)	23Vdc	46Vdc	
No Load Power Consumption	<35W	<40W	
Parallel Capacity	Yes 12 Units Parallel to Single Phase or Three Phase		


<sup>(1)</sup> Two Output Total Power Will Not Exceed Rated Output Power

# Datasheet

Model	SG 4200 Pro	SG 6000 Pro	User-Settable
<b>GENERAL</b>			
Operating Temperature Range	-10°C~55°C		
Storage Temperature	-15°C~60°C		
Humidity	5% to 95% Relative Humidity (Non-Condensing)		
Altitude	<2000m		
Noise	≤60dB		
Protection Degree	IP54, Indoor and Outdoor		
Cooling Method	Intelligent Fan		
Dimension (H*W*D)	500*405*117 mm		
Weight	13 KG		
Warranty	3 Years		
<b>COMMUNICATION</b>			
Embedded Interface	RS232*1/RS485*2/Dry Contact/CT		
Work with WIFI & Bluetooth Monitoring Dongle	YES, by RS232		
Work with Lithium Battery BMS	YES, by RS485		
Work with CT	YES, by CT Port		
<b>CERTIFICATION</b>			
Certification/Standard	CE(IEC61000, IEC62109); IEC61683; IEC60068; RoHS		

Specifications are subject to change without notice


Version: 25.05.12


 SunflxSolar

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 SunflxSolar

 sunflx.com

 sales@sunflx.com

## SUNFLX NEW ENERGY CO.,LTD

### Headquarter:

7/8F,Building3,Wanchuang Park,No 83 Zhanlun Road,Hongang.  
Daliang,Shunde,Foshan,Guangdong,P.R.China

### Guangzhou Branch:

N01-1,South Yixing Innovation Park,Huangpu,Guangzhou.  
GuangDong,PR.China

### Chengdu Branch:

Room 907,F9,Building A,Fucheng International Zone,No.722  
Yizhou Avenue Chengdu,Sichuan,P.R.China