

Off Grid Solar Storage Inverter

SF 5500 LV



Two MPPT , max. 22A string current , PV input 12kw



Dual AC outputs for smart load management



Wide PV input voltage range 60Vdc-500Vdc



Compatible with lithium lead-acid and GEL batteries



Support generator input



Feed into Grid (optional)

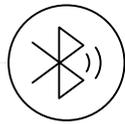


Plug-and-play quick connection MC4 PV terminals



PV and AC dual activation

Work with SunSync APP



Bluetooth monitoring
work without internet



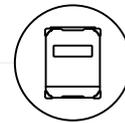
New device setting guidance
with step-by-step workflow



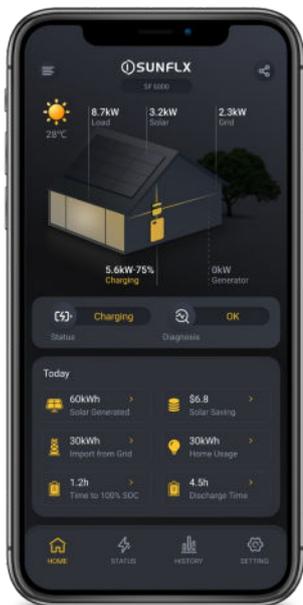
Setting all parameter
in one APP



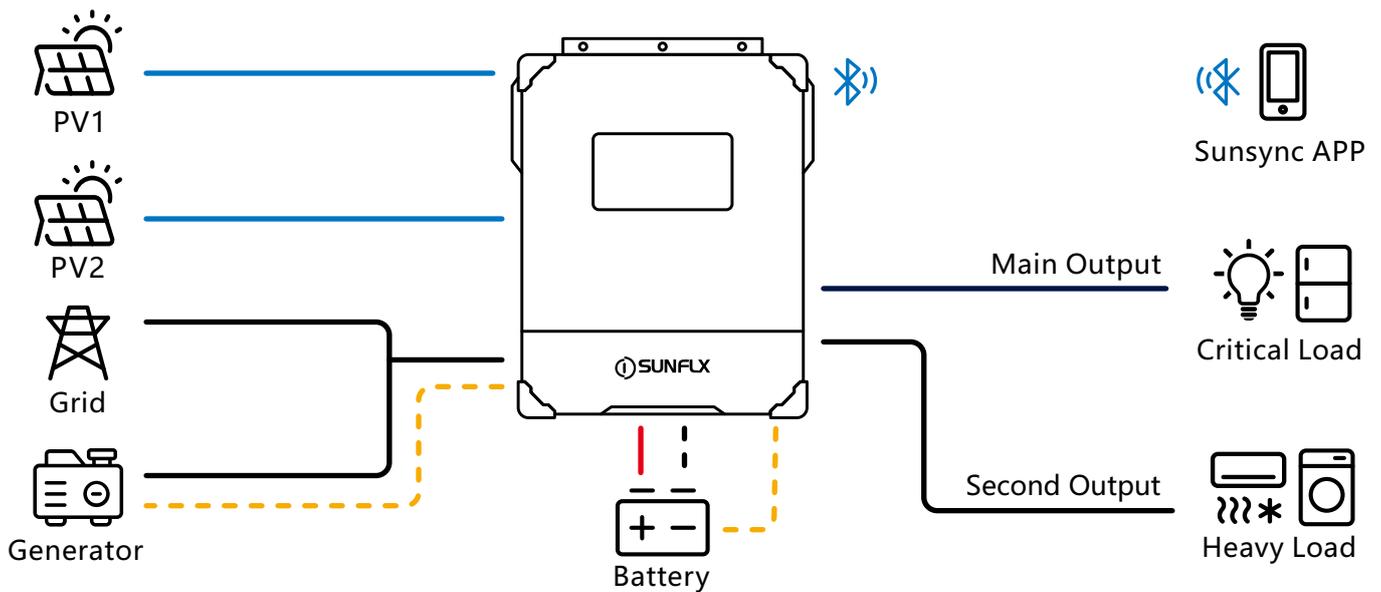
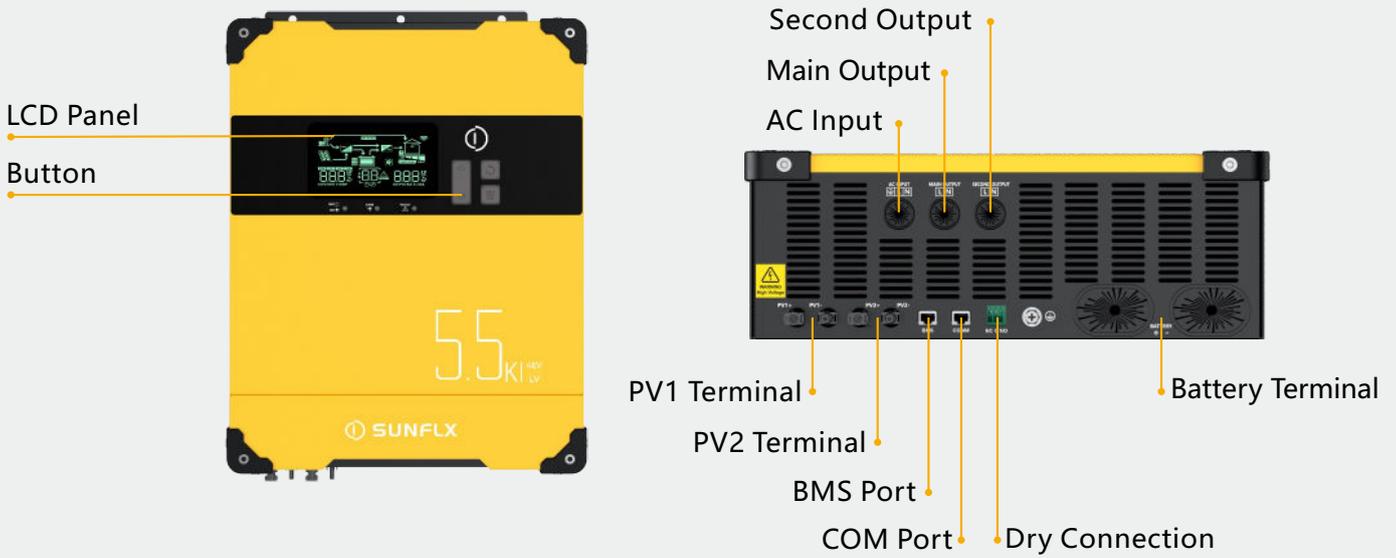
Comprehensive
trouble shooting



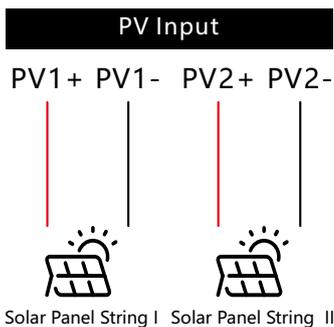
Compatible with all
sunflx products



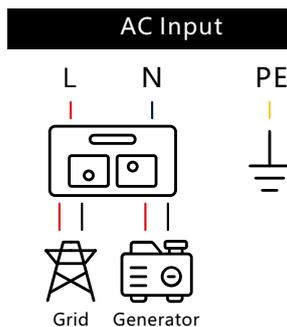
Connection



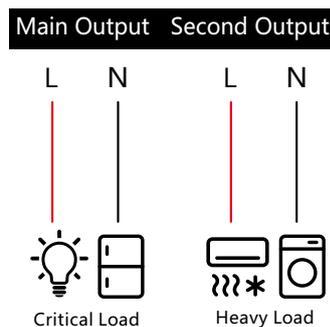
PV Panel Connection



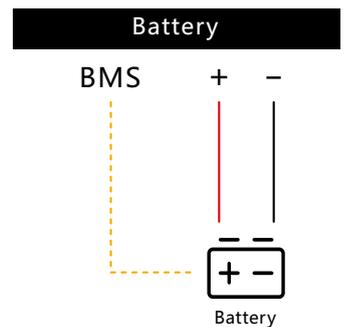
AC Input Connection



AC Output Connection



Battery Connection



Datasheet

Model	SF 5500 LV	User-Settable
Nominal Battery Voltage	48Vdc	
Battery Type	Lithium LiFePO4/Lead-Acid/Flood /User Defined	✓
AC INPUT		
Nominal AC Input Voltage/Waveform	120Vac(L/N/PE Single-Phase)/Sinusoidal (Utility or Generator)	
AC Input Range	90~134Vac (Appliances); 80Vac~134Vac (UPS)	✓
Nominal Input Frequency	50/60Hz (Auto Detection)	✓
AC Input Frequency Range	40~65±1Hz; (>42 or <63±1Hz Comeback)	
Max. Bypass Current	60Amp	
Output Short Circuit Protection	Circuit Breaker	
Transfer Time	10ms Typical (UPS); 20ms Typical (Appliances)	
AC CHARGER		
Charging Algorithm	3-Step	
Max. AC Charging Current	60Amp (@VI/P=120Vac)	✓
Bulk Charging Voltage	56.4Vdc (AGM/Gel Battery);58.4Vdc (Flooded Battery)	✓
Floating Charging Voltage	54Vdc	✓
Max. Hybrid Charging Current (Solar & Utility)	80Amp	✓
PV INPUT		
Num. of Independent MPPT Tracker	1	
MPPT Input Current	2*18Amp	
Max. PV Array Power	8000W	
Max. Solar Charge Current	80Amp	✓
PV Array MPPT Voltage Range	60~450Vdc	
Max. PV Array Open Circuit Voltage	500Vdc	
MPPT Tracking Efficiency	99.9%	
INVERTER OUTPUT		
Num. of Output Ports (Main & Second Output)	2	
Rated Output Power of Main/Second Output* ^{†1}	5500W/5500W	
Max. Output Current of Main/Second Output	46A/46A	
Surge Capacity	11000VA/11000W for 5 Seconds	
Output Voltage Waveform	Pure Sine Wave	
Overload Protection	5s@150% Load; 10min@110%~150% Load	
Output Voltage	110/120 Vac ± 5%	
Output Frequency	50Hz/60Hz ±1 Hz	
Peak Efficiency	94%	
Low Voltage Cut-off Voltage	42Vdc	✓
High Voltage Cut-off Voltage	63Vdc	
Cold Start Voltage (When Only Connect with Battery)	46Vdc	
No Load Power Consumption	<70W@48Vdc	
Parallel Capacity	NO	

* ^{†1} Two Output Total Power Will Not Exceed Rated Output Power

Datasheet

Model	SF 5500 LV	User-Settable
GENERAL		
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	IP21,Indoor Only	
Cooling Method	Intelligent Fan	
Dimensions(W*H*D)	415*309*110 mm	
Weight	11 KG	
Warranty	2 Years	
COMMUNICATION		
Embedded Interface	RS232*1/RS485*1/Dry Connection	
Work with Bluetooth Monitoring Dongle (Optional)	YES, by RS232	
Work with Lithium Battery BMS	YES, by RS485	
CERTIFICATION		
Certification/Standard	CE(IEC61000,IEC62109) ; IEC61683,IEC60068 ; RoHS	

Specifications are subject to change without notice

Version: 24.2

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