On/Off Grid Solar Storage Inverter

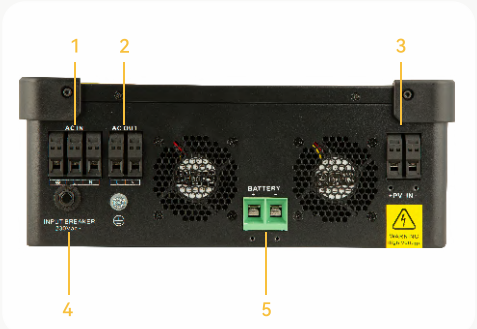
IP21 | Single Phase



SF 1200/2000/2400/3600 SE

The Sunflx SF-SE Series on/off grid solar storage inverter is a combination of high frequency inverter, AC charger and high efficiency MPPT solar controller.

It is an ideal solution for areas without a stable power grid. Built-in dustproof filter for harsh conditions, it offers an easy installation that helps reduce costs. With a 1.2-3.6kw power range, it's well-suited for small households, covering essential emergency power needs.



1.AC Input 2.AC Output 3.PV Input

4.Input Breaker 5.Battery

- Built-in MPPT solar charger
- Compatible with lithium, lead-acid and GEL batteries
- 30V low inverter start voltage, work with 1 pcs solar panel
- Multi-customized modes for diverse scenarios
- Optional WFI & Bluetooth monitoring
- Equalization charging function
- Feed into grid (Optional)
- Dust-proof filter for harsh environment
- Cost-effective with most stable quality
- Working without battery
- USB One-Key to upgrade firmware (Optional)
- BMS function (Optional)

Model	SF 1200 SE	SF 2000 SE	SF 2400 SE	SF 3600 SE	User-Settable
Nominal Battery Voltage	12Vdc	12Vdc	24Vdc	24Vdc	
Battery Type	Lithium LiFePO4/Lead-Acid/Flooded/User Defined				√
AC INPUT					
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	16Amp	16Amp	20Amp	30Amp	
Output Short Circuit Protection	Circuit Breaker				
Transfer Time	10ms Typical (UPS); 20ms Typical (Appliances)				
AC CHARGER					
Charging Algorithm	3-Step				
Max. AC Charging Current	80Amp				√
Bulk Charging Voltage	14.6Vdc (AGM/Gel) 14.1Vdc (Flooded)		29.2Vdc (AGM/Gel) 28.2Vdc (Flooded)		√
Floating Charging Voltage	13.5Vdc		27Vdc		√
Max. Hybrid Charging Current (Solar & Utility)	100Amp				√
PV INPUT					
Num.of Independent MPPT Tracker	1				
MPPT Input Current	1*18Amp				
Max. PV Array Power	2000W	3000W	3800W	5800W	
Max. Solar Charge Current	100Amp				√
PV Array MPPT Voltage Range	30~400Vdc				
Max. PV Array Open Circuit Voltage	450Vdc				
MPPT Tracking Efficiency	99.9%				
INVERTER OUTPUT					
Num. of Output Ports	1				
Rated Output Power	1200W	2000W	2400W	3600W	
Max. Output Current	5.2A	8.6A	10.4A	15.7A	
Surge Capacity	2.4KVA/2.4KW for 5 Seconds	4KVA/4KW for 5 Seconds	4.8KVA/4.8KW for 5 Seconds	7.2KVA/7.2KW 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 ±1 Hz				
Peak Efficiency	92%		93%	94%	
Low Voltage Cut-off Voltage	10.5Vdc		21.0Vdc		√
High Voltage Cut-off Voltage	16.0Vdc		33.0Vdc		
Cold Start Voltage (When Only Connect with Battery)	11.5Vdc		23.0Vdc		
No Load Power Consumption	<25W@12Vdc		<35W@24Vdc		
GENERAL					
Embedded Interface	RS232*1				
Operating Temperature Range	-10°C~55°C				
Noise	≤ 60dB				
Protection Degree	IP21, Indoor Only				
Cooling Method	Intelligent Fan				
Net Dimension (H*W*D)	395*285*110 mm	395*285*110 mm	395*285*110 mm	395*335*108 mm	
Net Weight	5.7 KG	6.1 KG	6.1 KG	7.3 KG	
Warranty	2 Years				
Certification / Standard	CE (IEC61000,IEC62109); IEC61683; IEC60068; RoHS				