

Low Frequency Off-grid Inverter PRO Series

SIF-PRO-1~12KW



SIF-PRO series is equipped with pure copper transformer to make the equipment very reliable, stable, and durable. Especially suitable for complex power environments with high current impact, such as factories, households, schools, hospitals, shops, farms, etc. It is also an ideal choice for users who have durability needs for products.



Hybrid



8 Years Design Life

ADVANTAGES-FEATURES



Pure Sine Wave Output, Adaptable to Different Loads



Stable Output Voltage and Save Power



MPPT Efficiency > 98%, AC Charging Efficiency > 98%



UPS Transfer Time < 20ms



Load Peak Ratio = 3:1, Strong Loading Capacity



Pure Copper Transformer, 8 years Lifespan



Configurable Grid/Solar Input Priority



Slight No-load Loss

ONESUN

Technical Data

Model	SIF-PRO-1KW	SIF-PRO-2KW	SIF-PRO-3KW	SIF-PRO-4KW	SIF-PRO-5KW	SIF-PRO-6KW	SIF-PRO-8KW	SIF-PRO-10KW	SIF-PRO-12KW
Input Data									
Rated Charge Current	60A								
Charger Mode	MPPT								
PV Input Voltage Range	30~55VDC (For 24V Battery) / 60~145VDC (For 48V Battery)								
MAX PV Open Circuit Array Voltage	55VDC (For 24V Battery) / 110VDC (For 48V Battery)								
Output Data									
Rated Power	1KW	2KW	3KW	4KW	5KW	6KW	8KW	10KW	12KW
AC Voltage	230VAC								
Nominal Input Voltage	120VAC / 230VAC					230VAC			
Low Line Disconnect	85VAC±4% (Normal) / 80VAC±4% (Wide) for 120V 184VAC±4% (Normal) / 135VAC±4% (Wide) for 230V					184VAC±4% (Normal) 135VAC±4% (Wide) for 230V			
Low Line Re-connect	95VAC±4% (Normal) / 85VAC±4% (Wide) for 120V 194VAC±4% (Normal) / 145VAC±4% (Wide) for 230V					194VAC±4% (Normal) 145VAC±4% (Wide) for 230V			
High Line Disconnect	136VAC±4% (Normal) / 140VAC±4% (Wide) for 120V 263VAC±4% (Normal) / 263VAC±4% (Wide) for 230V					263VAC±4% (Normal) 263VAC±4% (Wide) for 230V			
MAX AC Input Voltage	MAX 150V (120VAC) / MAX 270V (230VAC)					MAX 270V			
Nominal Input Frequency	50Hz (Range: 41~54Hz) / 60Hz (Range: 51~64Hz)								
Power Factor	0.9~1.0								
Nominal Output Voltage	LV: 120VAC ± 10% rms / HV: 230VAC ± 10% rms								
Nominal Output Frequency	50Hz ± 0.3Hz / 60Hz ± 0.3Hz								
Battery Data									
Nominal DC Input Voltage	24VDC / 48VDC								
Low Battery Alarm	21VDC±0.6VDC for 24VDC / 42VDC±1.2VDC for 48VDC								
Low DC Input Shut-down	20VDC±0.6VDC for 24VDC / 40VDC±1.2VDC for 48VDC								
High DC Input Alarm & Fault	32VDC±0.6VDC for 24VDC / 64VDC±1.2VDC for 48VDC								
Efficiency									
Mppt Efficiency	≥99%								
Efficiency (Battery Mode)	≥87%								
Efficiency (Line Mode)	≥98%								
System Parameter									
Transfer Time	AC to DC 20ms (MAX) / DC to AC 15ms (MAX)								
Overload Protection	110%<load<150%, beeps 0.5s every 1s & fault after 60s off the output load>150%, beeps 0.5s every 1s & fault after 20s								
Surge Rating (10s)	3:1 (VA)								
Power Saver	Load≤25W (Enabled on "P/S auto" Setting of Remote Control)								
General Data									
Protections	Low battery, Over charge, Over load, Over temperature								
Indicators	LED+LCD Display								
Operating Temperature Range	0°C~40°C								
Storage Temperature	-15°C~60°C								
Operating Humidity	5%~95% (Non-condensing)								
Noise	≤60dB								
Cooling	Forced Air, Variable Speed Fan								
Dimensions (W*D*H)	190*336*480mm			190*400*530mm			204*416*627mm		
Net Weight	19.5kg	23.5kg	28.0kg	30.0kg	35.5kg	39.0kg	52.5kg	58.5kg	66.5kg
Standard	EN-IEC 60335-1, EN-IEC 60335-2-29, IEC 62109-1; SONCAP								