

# 4KW~6KW Off-grid Industrial frequency Inverter



## Features

- **AC/Solar charging Off grid Hybrid Inverter.**
- **LED/LCD display, Enhanced functions setting via LCD, Man-machine intelligent design.**
- **Built-in 40A/60A optional MPPT solar charger controller.**
- **LCD shows the solar capacity.**
- **Adjustable 5 stages AC charging Current. AC charging also can be closed.**
- **AC/DC priority modes can be set. External WIFI devices.**
- **Generator restart signal. (Dry contact)**
- **3 times peak power. Strong loading capacity.**
- **Overload, output short-circuit protection.**



Hybrid

8 Years Design Life



Specially designed for servers, data-center critical network devices, sensitive electronic equipment, telecom, bank, hospital, bureau, traffic, public security, ATM and so on.

## Product Parameters

Model	SIF PRO-4KW	SIF PRO-5KW	SIF PRO-6KW	
AC Input	Rated power	4000W	5000W	6000W
	Input Voltage Waveform	Sinusoidal (utility or generator)		
	Nominal input Voltage	120/230VAC		230VAC
	Low Line Disconnect	85Vac±4%(normal) or 80Vac±4% (W) for 120V 184Vac±4%(normal) or 135Vac±4%(W) for 230v		184Vac±4% (Normal) or 135Vac±4% (Wide) for 230V
	Low Line Re-connect	95Vac±4% (Normal) or 85Vac±4% (Wide) for 120V 194Vac±4% (Normal) or 145Vac±4% (Wide) for 230V		194Vac±4% (Normal) or 145Vac±4% (Wide) for 230V
	High Line Disconnect	136Vac±4% (Normal) or 140Vac±4% (Wide) for 120 V263Vac±4% (Normal) or 263Vac±4% (Wide) for 230V		263Vac±4% (Normal) or 263Vac±4% (Wide) for 230V
	Max AC input Voltage	120V for Max150V, 230V for Max270V		230V for Max270V
AC Output	Frequency	50Hz:41-54Hz, 60Hz:51-64Hz		
	Output Voltage Waveform	Sine wave		
	Power Factor	0.9~1.0		
	Nominal Output Voltage	LV:120Vac ±10%rms, HV:230Vac ±10%rms		
Solar Charger	Nominal Output Frequency (Hz)	50Hz ± 0.3Hz, 60Hz ± 0.3Hz		
	Rated Charge Current	60A		
	PV Input Voltage range	30VDC-55VDC for 24VDC, 60-145VDC for 48V		
	Max.PV open circuit array voltage	24V for 55Vdc, 48V for 110Vdc		
	Charger mode	MPPT		
	PV Low Voltage Re-connect	PV≥Bat.V+3V		
	PV Low Voltage Disconnect	PV≤Bat.V		
AC Charger	Efficiency	≥97%		
	Nominal Charger Current	20A/35A/50A/70A/90A( 5 stages adjustable charging Current)		
Charger	Over charge Protection	Bat.V≥31.0VDC for 24V battery, Bat.V≥62.0VDC for 48V battery & beeps 0.5s every 1s & fault after 60s		
	Nominal Charger Current	20A/35A/50A/70A/90A(According to the inverter model) & adjustable 5 stages charging Current		
Efficiency	Over charge Protection	Bat.V≥15.5VDC/31.0VDC/62.0VDC, beeps 0.5s every 1s & fault after 60s		
	Battery low voltage alarm	≥87%		
Battery Voltage	Battery high voltage alarm	>98%		
	Nominal DC input Voltage	24/48VDC		
	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		
Transfer Time	High DC input Alarm & Fault	32VDC±0.6VDC for 24VDC 64VDC±1.2VDC for 48VDC		
	AC to DC	20ms(max)		
System Parameter	DC to AC	15ms(max)		
	Over-Load Protection	110%<load<150%, beeps 0.5s every 1s, and Fault after60s off the output.load>150%,beeps 0.5s every 1s, and Fault after 20s		
	Surge Rating(10s)	1:3(VA)		
	Power Saver	Load≤25W(Enabled on "P/S auto" Setting of Remote control)		
	Protections	Low battery, over charging, over load, over temp		
General Specifications	Indicators	LED+LCD Display		
	Operating Temperature Range	0°C ~ 40°C		
	Storage Temperature	-15°C ~ 60°C		
	Operation humidity	5% to 95% (non-condensing)		
	Audible Noise	60dB max		
	Cooling	Forced air, variable speed fan		
	Dimension(L*W*H)	530*400*190mm		
Net Weight(kg)	30kg	35.5kg	39kg	