

## 2KW~12.5KW Off-grid Industrial frequency Inverter

### Features



- Pure sine wave output, adaptable to different loads.
- Optional generator self-starting with lead-acid or lithium batteries.
- The no-load loss is 50% lower than that of the high-frequency inverter of the same power.
- PWM / MPPT solar controller are optional, all output equipped with short circuit protection.
- BMS and RS485 are optional to achieve efficient battery management and network communication.
- Support adjusting the proportion of PV, AC and battery input when powering the load or charging the battery.
- Adjustable AC actuation voltage and DC actuation current; Support self diagnosis failure and auto restart voltage.
- The conformal coating can is available to protect the circuit board from the erosion of the harsh environment, thereby improving and extending the service life of the machine and ensuring the safety and reliability of use.



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-2KW	SIF-3KW	SIF-5KW	SIF-6KW	SIF-8KW	SIF-10KW	SIF-12.5KW	
Efficiency	MPPT Efficiency	>98%						
	Efficiency (AC Charging)	>98%						
	Efficiency (Battery Mode)	88~89%						
Input	Rated Power	2000W	3000W	5000W	6000W	8000W	10000W	12500W
	Rated Input Voltage	220VAC (Standard) / 110VAC (Customized)						
	Input Voltage Range	For 220VAC: 154V~264VAC ± 3V (Normal Mode) ; 185V~264VAC ± 3V (UPS Mode) For 110VAC: 77V~132VAC ± 3V (Normal Mode) ; 92V~132VAC ± 3V (UPS Mode)						
	Input Frequency	50Hz / 60Hz ± 5%						
Output	Output Power	1600W	2400W	4000W	4800W	6400W	8000W	10000W
	Output Power Factor	PF=1.0						
	Rated Output Voltage (Battery Mode)	220VAC±10% (110VAC±10%)						
	Rated Output Frequency (Battery Mode)	50Hz / 60Hz ± 1%						
PV	MAX PV Array Power	12V: 800W / 24V: 1600W / 48V: 3200W			24V: 3200W / 48V: 6400W			
	PV Input Voltage Range (MPPT / PWM)	12V: MPPT 15V~150VDC PWM 15V~30VDC (50VDC Customized)	24V: MPPT 30V~150VDC PWM 30V~60VDC (105VDC Customized)	48V: MPPT 60V~150VDC / PWM 60V~105VDC	24V: MPPT 30V~150VDC (200VDC Customized)		48V: MPPT 60V~150VDC (200VDC Customized)	
	Optimum Operating Voltage Range (Vmp)	12V: MPPT 15V~105VDC / PWM 15V~20VDC	24V: PWM 30V~60VDC (105VDC Customized)	48V: MPPT 60V~105VDC / PWM 60V~80VDC	24V: MPPT 30V~105VDC (200VDC Customized)		48V: MPPT 60V~105VDC (200VDC Customized)	
	MAX AC Charging Current	38A / 19A / 9A	30A / 15A	24A/48A / 58A	29A	38A	48A	60A
	MAX Solar Charging Current	60A			120A			
	MAX AC Charging Current	19A	30A / 15A	48A / 58A	29A	38A	48A	60A
	Battery Type	Lead-acid / Water / Li-ion/Gel						
	Battery Voltage	12/24VDC	24/48VDC	24/48VDC	24/48VDC	24/48VDC	24/48VDC	24/48VDC
	Battery Charging Voltage	13.75/27.4VDC	27.4/54.8VDC	27.4/54.8VDC	27.4/54.8VDC	27.4/54.8VDC	27.4/54.8VDC	27.4/54.8VDC
	Transfer Time	≤10ms (UPS Mode) / ≤20ms (INV Mode)						
Peak Load Ratio	3:1 (MAX)							
Standby Power Consumption	12V: 8W / 24V: 16W / 48V: 32W			24V: 16W / 48V: 32W				
Protective Function	AC: Input Over-current Protection with No-fuse Breaker INV: Overload Protection, Short-circuit Protection, Low-voltage Protection, Reverse Battery Protection (Fuse)							
LED Display & Voice Alarm	LED Dot Matrix Screen / LED Segment Code Screen&display Mains supply, charging status, inverter status, fault status. The buzzer emits alarms of different length according to different fault codes.							
Operating Temperature	0°C~40°C							
Storage Temperature	-15°C~45°C							
Operating Humidity	10%~90% (Non-condensing)							
Noise	≤45dB							
Dimensions (W*D*H)	312*125*490mm 385*195*520mm (Packaged)			400*200*545mm 460*270*660mm (Packaged)				
Standards	EN-IEC 60335-1, EN-IEC 60335-2-29, IEC 62109-1							