

AC&DC Converter Systems

CFE-SW-1.5K-12V/2K-24V/3K-24V



Superior Power Conversion

- **Pure Sine Wave Output (THD < 3%)** Grid-level power quality for sensitive electronics (e.g., medical devices, air conditioners).
- **Up to 99% Efficiency** Powered by third-generation semiconductor technology for minimal energy loss and compact size (40% smaller).
- **High Surge Capability (110%-120%)** Supports inductive load startup (motors, compressors).



Integrated Dual-Function System

- **Inverter + MPPT Controller in One Unit** Simplifies off-grid power systems and maximizes energy utilization.
- **Wide Input Voltage Range** Compatible with both lead-acid and lithium batteries.
- **Real-Time Display** LCD interface for monitoring voltage, frequency, and system status.



Comprehensive Safety & Reliability

- **Input Protection** Overvoltage, undervoltage, and deep discharge.
- **Output Protection** Short circuit, overload, over-temperature shutdown.
- **Extended Operating Range** -20°C to +60°C for harsh environments.



Flexible Application Scenarios

- **Mobile Power** RVs, boats, emergency vehicles.
- **Residential & Commercial Backup** Off-grid homes, shops, remote sites.
- **Renewable Hybrid Systems** Solar, battery, and generator-ready.

Model		CFE-SW-1.5K-12V	CFE-SW-2K-24V	CFE-SW-3K-24V
Inverter Output	Rated Power	1500W	2000W	3000W
	AC Voltage	220V	220V	220V
	Frequency	50Hz/60Hz (Selectable)		
	Continuous Output Power	1500W	2000W	3000W
	Waveform	Pure Sine Wave		
Inverter Input	Battery Voltage	12V	24V	24V
	Voltage Range	10-15V	20-30V	20-30V
	DC Current	140A	90A	136A
	No-Load Loss Current	1.2A	0.7A	1.2A
	Shutdown Mode Static Current	0mA		
	Peak Efficiency	> 88%		
	Battery Type	Lithium/Lead-acid		
	PV Input	60V, 8-10A		
Battery Input Protection	Fuse	40A*6	20A*8	20A*10
	Low Voltage Alarm	11.6V±0.5Vdc	23.2V±0.5Vdc	23.2V±0.5Vdc
	Low Voltage Protection	10.8V±0.5Vdc	21.6V±0.5Vdc	21.6V±0.5Vdc
	High Voltage Protection	14.4V±0.5Vdc	28.8V±0.5Vdc	28.8V±0.5Vdc
Input Characteristics	Over-Temperature	> 75°C		
		LCD screen display, buzzer alarm, inverter output off.		
	Short Circuit Protection	LCD screen display, after removing the short circuit, the inverter output will be restored automatically; after 3 times of short circuit protection, it is necessary to re-switch the machine.		
	Overload Protection	120%		
		Overload Protection, The red LED indicator flashes. A power cycle is required to restore operation after three consecutive overload protection triggers.		
Dimensions	Product Size (L*W*D)	335*190*110mm	400*190*110mm	480*190*110mm
Environmental	Operating Temperature	-20~60°C		
	Operating Humidity	0-95%RH (No condensed water)		
	Storage Temperature, Humidity	-20°C ~ 60°C		

CF Energy Co., Ltd.

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