

Power Conversion

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



Superior Power Conversion

- Pure sine wave output (THD < 3%) — suitable for sensitive electronics and motor loads (e.g., air conditioners).
- Up to 99% Efficiency Powered by third-generation semiconductor technology for minimal energy loss and compact size for minimal energy loss and compact size.
- High Surge Capability (110% - 120%) Supports inductive load startup (motors, compressors).



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.



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.



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	1500 W	2000 W	3000 W
	AC Voltage	220 V	220 V	220 V
	Frequency	50 Hz / 60 Hz (Selectable)		
	Continuous Output Power	1500 W	2000 W	3000 W
	Waveform	Pure Sine Wave		
Inverter Input	Battery Voltage	12 V	24 V	24 V
	Voltage Range	10 - 15 V	20 - 30 V	20 - 30 V
	DC Current	140 A	90 A	136 A
	No-Load Loss Current	1.2 A	0.7 A	1.2 A
	Shutdown Mode Static Current	0 mA		
	Peak Efficiency	> 88 %		
	Battery Type	Lithium / Lead-acid		
	PV Input	60 V, 8 – 10 A		
Battery Input Protection	Fuse	40 A × 6	20 A × 8	20 A × 10
	Low Voltage Alarm	11.6 V ± 0.5 Vdc	23.2 V ± 0.5 Vdc	23.2 V ± 0.5 Vdc
	Low Voltage Protection	10.8 V ± 0.5 Vdc	21.6 V ± 0.5 Vdc	21.6 V ± 0.5 Vdc
	High Voltage Protection	14.4 V ± 0.5 Vdc	28.8 V ± 0.5 Vdc	28.8 V ± 0.5 Vdc
	Over-Temperature	> 75 °C		
		LCD screen display, buzzer alarm, inverter output off.		
Input Characteristics	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.		
	Product Size (W × D × H)	190 × 110 × 335 mm	190 × 110 × 400 mm	190 × 110 × 480 mm
	Operating Temperature	-20 to 60 °C		
	Operating Humidity	0 – 95% RH (non-condensing)		
	Storage Temperature	-20 to 60 °C		

CFE ESS Co., Ltd.

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