

All-in-One



CFE-Power Stream 1 / CFE-Power Stream 2

500W / 1.0kWh Portable Solar & Grid Power Box / 1000W / 2.0kWh Portable Solar & Grid Power Box



Leading Technology

- Advanced inverter technology enables direct AC 220V power conversion from a single battery cell. Proprietary power-conversion and protection architecture with integrated monitoring and safety logic. (Battery Management System) and resolving the issues caused by voltage differences between battery cells.



High Quality and Competitive Price

- Cost-effective options.
- Superior minimalist design.
- Aluminum alloy casing with excellent heat dissipation.



Ultra Safety Reliability

- Lithium iron phosphate battery with highest safety rating.
- Multiple safety protection strategies.
- Featuring quick-connect technology and insulation protection.
- Portable and easy to use.



Comprehensive Smart System

- Simple and reliable small off-grid system.
- Can be charged with a single solar panel and features fast charging speed.

Model	Power Stream 1		Power Stream 2
Output			
AC Output	Rated Voltage	220 – 230 Vac	
	Rated Power	500 W	1000 W
	Overload Power	600 W (10s)	1100 W (10s)
	Frequency	50 / 60 Hz	
DC Output	USB-A Output:	5 Vdc, 2.4 A max, QC3.0 up to 18 W	
	USB-C Output:	5 Vdc, 2.4 A max, QC3.0 up to 18 W	
	12V DC Output	12 Vdc, 10 A max (120 W max)	
Input			
AC Charging Input		90 – 280 Vac, 45 / 65 Hz 500 W max	90 – 280 Vac, 45 / 65 Hz 1000 W max
PV Input (MPPT)	MPPT Voltage Range	11 – 55 Vdc	
	MPPT Connector	XT 60	
	Max. Input Power	300 W	550 W
Battery			
Battery Type		Lithium Iron Phosphate · LFP (LiFePO4)	
Nominal Voltage		3.2 Vdc	6.4 Vdc
Battery Voltage Range		2.8 - 3.6 Vdc	6.0 - 7.3 Vdc
Capacity		314 Ah	
Total Energy		1.005 kWh	2.009 kWh
Max. Charge Current		150 Adc	
Max. Discharge Current		150 Adc	
General			
Ingress Protection		IP21	
Charge Operating Temperature		-10 to 70 °C	
Discharge Operating Temperature		-20 to 70 °C	
Size (W × D × H)		310 × 210 × 142 mm (12.2 × 8.27 × 5.59 in)	233 × 310 × 255 mm (9.17 × 12.20 × 10.04 in)
Net Weight		9.8 kg	19 kg
Certification		CE / RoHS / SAA / FCC / PSE	
Warranty		3 years	
Design Cycle Life		8000 cycles	

Real-World Runtime Examples

All runtimes are theoretical values based on 1,005Wh battery energy with typical appliance power. Results may vary with actual devices and conditions.(Assumes 25 °C and new battery.)

1. Household & Shop Scenarios

Scenario & Typical Loads	Approx. Power	Estimated Runtime
Essential Night – 3 × LED lights, Wi-Fi router, phones charging	50 W	≈ 20 hours
Family Evening – lights, small fan, 32" TV, Wi-Fi	150 W	≈ 6.7 hours
Small Shop Mode – shop lights, fan, POS + printer, Wi-Fi	140 W	≈ 7.2 hours
Study Mode – 2 × study lamps, laptop, Wi-Fi	95 W	≈ 10.6 hours

Keep lights, fan, Wi-Fi and TV running for a full evening during power cuts with just one CFE-PS1.

2. DC & USB Device Charging

- Up to 80+ smartphone recharges (5,000mAh class, ~12Wh each)
- Around 50 tablet recharges (~20Wh each)
- About 15 full laptop charges (~65Wh battery)
- Around 35 drone battery charges (~28.4Wh pack)

can support essential communication and lighting for multiple nights, even in off-grid or weak-grid areas.

CFE ESS Co., Ltd.

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