

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		0 to 45 °C			
Discharge Operating Temperature		-10 to 45 °C			
Size (W × D × H)		310 × 210 × 142 mm (12.2 × 8.27 × 5.59 in)		233 × 300 × 255 mm (9.17 × 11.81 × 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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