

# All In One

## CFE-Power Stream 1

500W/1.0kWh Portable Solar & Grid Power Box



Single 314Ah LFP Cell – No Series,  
No Parallel



Up to 8000 Charge Cycles for  
Daily Use



500W Pure Sine Wave Output, 1kWh  
Usable Energy



Dual Charging: MPPT Solar + AC Grid



All-in-One Outputs: 2× AC, USB-A,  
USB-C, 12V DC



Rugged Aluminum Body – Compact,  
Portable, Durable

Model		CFE-PS1
Output		
AC Output	Rated Voltage	220-230Vac
	Rated Power	500W
	Overload Power	600W (10s)
	Frequency	50/60Hz
DC Output	USB-A Output:	5Vdc, 2.4A max, QC3.0 up to 18W
	USB-C Output:	5Vdc, 2.4A max, QC3.0 up to 18W
	12V DC Output	12Vdc, 10A max (120W max)
Input		
AC Charging Input		90–280Vac, 45/65Hz, 500W max
PV Input (MPPT)	MPPT Voltage Range	11~55Vdc
	MPPT Connector	XT60
	Max. Input Power	300W
Battery		
Battery Type		Lithium Iron Phosphate (LiFePO4, LFP)
Battery Voltage		3.2Vdc
Battery Voltage Range		2.8-3.6Vdc
Capacity		314Ah
Energy		1.005kWh
Max. Charging Current		150Adc
Max. Discharge Current		150Adc
General		
Ingress Protection		IP21
Charging Temperature		0–45°C
Discharging Temperature		-10–45°C
Size (W × H × D)		300 × 142 × 210 mm (11.81 × 5.59 × 8.27 in)
Net Weight		9.8 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.

##### 1. Household & Shop Scenarios

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

One CFE-PS1 can cover a family's communication and lighting needs for several nights, even in off-grid or weak-grid areas.

CF Energy Co., Ltd.

CFE has offices & warehouses in the following regions where you can get in touch with us:

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