

# All-in-One Power Station

## CFE Power Stream 8



4kW / 8kWh All-in-One Hybrid Power Station for 220–240Vac homes and small businesses.



### 4kW Pure Sine Wave, 8kWh LFP Storage

- Inverter, MPPT charger, battery pack and BMS fully integrated in one compact floor-standing unit.



### Solar + Grid / Generator Hybrid Input

- Supports up to 6.2kW PV (60–450Vdc) plus 220/230/240Vac grid or generator charging for flexible energy use day and night.



### Real Backup for Whole Rooms and Small Shops

- Easily runs fridge, lights, fans, Wi-Fi, TV, POS and CCTV together during power cuts.



### Clean, Silent Alternative to 4kVA Generators

- Indoor-friendly design with low noise, no fuel, no fumes and far less maintenance than petrol gensets.



### Smart Touchscreen & Flexible Energy Modes

- High-definition LCD / touch display shows power flow at a glance and lets users set solar-first, backup-first and time-of-use modes.



### Safe, Long-Life LiFePO<sub>4</sub> Battery System

- 25.6V Lithium Iron Phosphate pack (8.04kWh) with smart BMS and multi-level protection, designed for long cycle life in harsh grids.

Model	CFE-PS8
Description	4kW all-in-one hybrid power station with 8kWh LFP battery
AC Output	
Rated output power	4kW, single-phase
Nominal output voltage	220 / 230 / 240Vac
Output voltage range	220 / 230 / 240Vac $\pm 5\%$
Output frequency	50 / 60Hz $\pm 0.1\%$ (pure sine wave)
Nominal output current	17.4A
Peak / overload power	8.0kVA (no continuous overload; unit will shut down when overloaded)
Transfer time	<10ms (utility / inverter)
Total harmonic distortion (THD)	<3%
Max. conversion efficiency (battery $\rightarrow$ AC)	98%
AC Input (Bypass / Charging)	
Input sources	L + N + PE (single-phase 3-wire)
Rated input voltage	220 / 230 / 240Vac
Input voltage range	90–280Vac $\pm 3V$ (Appliance mode) / 170–280Vac $\pm 3V$ (UPS mode)
Input frequency range	50 / 60Hz (auto adaptive)
Max. AC charging power	3,000W (typical, AC charging)
PV Input (MPPT)	
PV charging mode	MPPT
Max. PV input power	6,200W
Max. PV input voltage	500Vdc
Max. PV input current	22A
MPPT tracking range	60–450Vdc
Battery	
Battery type	LiFePO <sub>4</sub> (LFP), built-in pack with smart BMS
Nominal battery voltage	25.6Vdc
Nominal capacity	314Ah
Rated energy	8.04kWh
General	
Phase	1-phase in / 1-phase out
Installation	Floor-standing, against-the-wall
Protection degree	IP20, indoor use only
Discharge temperature	–10 to +55°C
Charge temperature	0 to +45°C
Operating humidity	0–95% RH, non-condensing
Cooling	Forced air (internal fan)
Dimensions (W $\times$ H $\times$ D)	830 $\times$ 520 $\times$ 170mm
Weight	82 kg
Design cycle life	8,000 cycles @ 80% DOD, 25°C
Warranty	3 years (battery & inverter)
Communication ports	RS-485 (upper computer / BMS), optional Wi-Fi module
Certifications	CE / RoHS / SAA / FCC / PSE

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