

All-in-One

CFE-Power Stream 8



Safety

- Strict quality control: Each device meets the standards and undergoes strict testing and certification.



Ease of Use

- Adaptive energy management: operating modes can be adjusted to match household load and PV generation.



Runtime

- Easy to use: adopts advanced integrated energy storage technology, battery PCS integrated design, easy and quick installation and commissioning.



Service & Warranty

- Long-life design: high-quality lithium iron phosphate batteries and components, carefully designed and manufactured, have a long service life, reducing maintenance and replacement costs.

Model	CFE-PS8
Description	4 kW all-in-one hybrid power station with 8kWh LFP battery
AC Output	
Rated Output Power	4 kW, single – phase
Nominal Output Voltage	220 / 230 / 240 Vac
Output Voltage Range	220 / 230 / 240 Vac ± 5%
Output Frequency	50 / 60 Hz ± 0.1% (pure sine wave)
Nominal Output Current	17.4 A
Peak / Cverload Power	4.0 kVA (Unit shuts down under sustained overload to protect internal components.)
Transfer Time	<10ms (utility / inverter)
Total Harmonic Distortion (THD)	<3%
Max. Conversion Efficiency (Battery → AC)	98%
AC Lnpnt (Bypass / Charging)	
Input Sources	L + N + PE (single-phase 1-wire)
Rated Input Voltage	220 / 230 / 240 Vac
Input Voltage Range	90 – 280 Vac ± 3 V (Appliance mode) / 170 – 280 Vac ± 3 V (UPS mode)
Input Frequency Range	50 / 60 Hz (auto adaptive)
Max. AC Charging Power	3,000 W (typical, AC charging)
PV Lnpnt (MPPT)	
PV Charging Mode	MPPT
Max. PV Input Power	6,200 W
Max. PV Input Voltage	500 Vdc
Max. PV Input Current	22 A
MPPT Tracking Range	60 – 450 Vdc
Battery	
Battery Type	LiFePO ₄ (LFP), built-in pack with smart BMS
Nominal Battery Voltage	25.6 Vdc
Nominal Capacity	314 Ah
Rated Energy	8.04 kWh
General	
Phase	1-phase in / 1-phase out
Installation	Floor – standing, wall – adjacent installation
Protection Degree	IP20, indoor use only
Discharge Operating Temperature	-20 to 70°C
Charge Operating Temperature	-10 to 70°C
Operating Humidity	0 – 95% RH (non-condensing)
Cooling	Forced air (internal fan)
Dimensions (W × D × H)	550 × 180 × 800 mm
Weight	82 kg
Design Cycle Life	8,000 cycles (@25 ± 2 °C, 0.5C / 0.5C, 80% DoD)
Warranty	3-year warranty (battery and inverter)
Communication Ports	RS-485 (upper computer / BMS), optional Wi-Fi module
Certificates	CE / RoHS / SAA / FCC / PSE

CFE ESS Co., Ltd.

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