

All-in-One

CFE Power Stream 4

3kVA / 3kW all-in-one floor-standing power station with 4.0kWh LFP battery



3kVA Pure Sine Wave, 4 kWh LFP Storage

- Integrated inverter / charger and battery in one compact floor - standing unit.



Real Backup for Home & Small Business

- Keeps fridge, lights, Wi-Fi, TV and POS running during power cuts.



Solar + Grid / Generator Charging

- Works with rooftop PV and 230Vac grid or genset for 24 / 7 availability.



Safe, Long-Life LiFePO4 with Smart BMS

- 4.0 kWh LFP battery with up to 8,000 cycles, protected by multi-level BMS.



Clean, Silent Alternative to 3 kVA Generators

- No fuel, no fumes, low maintenance – zero exhaust inside shops and homes.



Ideal for upgrading existing 220 – 230 Vac installations

- Simply connect PS4 between the grid and critical loads – no rewiring of the whole building.

Model	CFE-PS4
Description	3 kVA / 3 kW all-in-one portable power station with 4.0 kWh LFP battery
AC Output	
Rated Output Power	3 kVA / 3 kW, single-phase
Nominal Output Voltage	230 Vac
Output Voltage Range	170–264 Vac (UPS mode) / 90–264 Vac (Appliance mode)
Output Frequency	50 / 60 Hz
Output Waveform	Pure sine wave
Nominal Output Current	13 A
Overload Power	4,500 W
Transfer Time	<10 ms (grid to inverter)
Total Harmonic Distortion (THD)	<3%
Max. Conversion Efficiency (Battery → AC)	93%
AC Input (Bypass / Charging)	
Rated Input Voltage	230 Vac
Input Voltage Range	170 – 264Vac / 90 – 264Vac (UPS / Appliance modes)
Input Frequency	50 / 60 Hz
Max. AC Input Current	15 A
Max. AC Charging Power	3,000 W
PV Input (MPPT)	
Max. PV Input Power	3,500 W
MPPT Voltage Range	60 – 430 Vdc
Start-up Voltage	55 Vdc
Nominal / Max. DC Voltage	360 Vdc / 450 Vdc
MPPT Tracker / Max. Input Current	1 MPPT / 20 A
MPPT Efficiency	99% (peak)
Battery	
Battery Type	LFP (LiFePO4)
Nominal Voltage	12.8 Vdc
Nominal Capacity	314 Ah
Rated Energy	4.02 kWh
Max. Charging Current (PV + AC)	150 Adc
General	
Phase	1 – phase in / 1 – phase out
Protection Degree	IP20, indoor use only
Mounting	Floor-standing installation
Operating Temperature	-10 to 50 °C
Relative Humidity	0 – 95% RH (non-condensing)
Cooling	Forced air (internal fan)
Dimensions (W × D × H)	620 × 200 × 420 mm (24.41 × 7.87 × 16.54 in)
Design Cycle Life	8,000 cycles
Warranty	3 years
Communication Ports	RS – 485 (upper computer / BMS), optional Wi-Fi module
Certificates	CE / RoHS / SAA / FCC / PSE

CFE ESS Co., Ltd.

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

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