



First-class power battery system supplier
First-class supplier of energy storage and microgrid



Global Exclusive Distributor



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CFE Residential ESS



Hello
We provide you
with professional
system-integration
services

CF Energy Co., Ltd. (abbreviation for CFE) ("CFE" for short), established in Xianyang wholly-owned by CF Power Co., Ltd. Specializing in the development of energy storage and microgrid systems. Its current products includes Residential ESS,C&I ESS,Utility ESS, and ,Portable power station.



About CFE

CFE is committed to the R&D and production of Residential ESS, actively respond to customer needs, and provide customers with professional, skill leading system integration and service solutions through technological innovation and industry chain resource integration. CFE Residential ESS can be combined with photovoltaic and other power generation systems to improve power supply quality and provide power supply guarantee for users all day; through valley time charging and peak time discharge, it can reduce household power consumption expenses of users, and at the same time, it can obtain economic benefits by selling power to the grid.



Top 5 battery pack manufacturer in China

12 GWh manufacture capacity
3+ GWh deployed to market
200+ R&D engineers and scientists
6% of revenue devoted to R&D



Proven track record to supply to mobility industry

15% market share for power pack for e-bike
Major player for power pack for e-bus
Zero safety incident for deployed packs

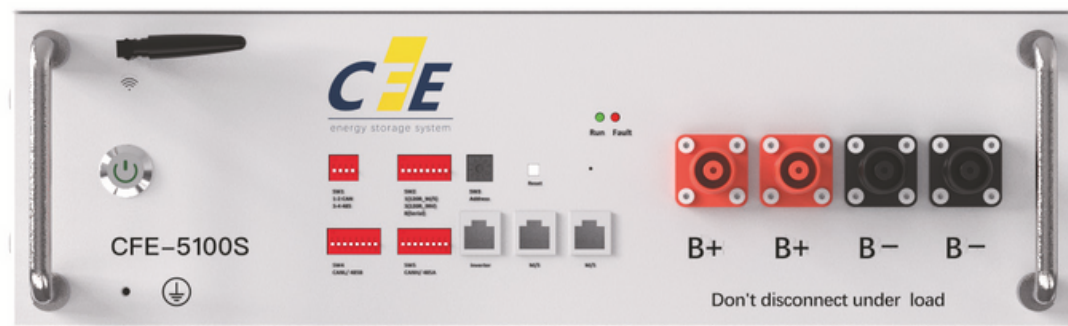
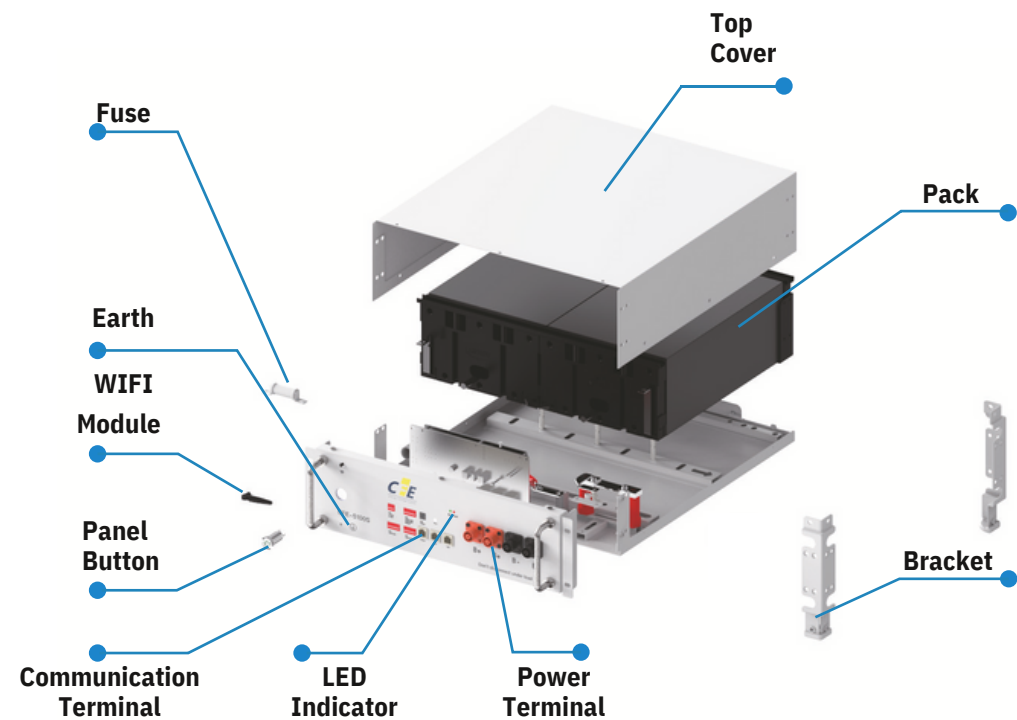


Quality Certifications

IATF16949, ISO14001/9001, OHSAS18001



CFE-5100S



SW1	DIP switch select for CAN or RS485
SW2	Resistance for communication and DIP switch for parallel
SW3	connection Switch for battery's Address select
SW4 &	Communication interface for battery or master battery with
SW5 Reset	Inverter Reset the WIFI or GPPS/GPS module configure



Main models & Technical spec

Model	CFE-5100S
Nominal Battery Energy	5.1kWh
Nominal Capacity	100Ah
Nominal Voltage	51.2V
Range of Voltage	44.8V~58.4V
Recommend C Rate	1C
Continuous Max C Rate	1C
Net Weight	51Kg
Dimension [W*D*H]	442*500*133mm
Charging Temp. Range	0 ~ 50°C
Discharging Temp. Range	-10 ~ 55°C
Calendar Life[1]	6000 Cycles
Protection Level	IP20
Communication	CAN / RS485
Certification & Safety	CB (UL1973,IEC62040,IEC62619)
Standard Warranty	10 Years
Scalability	Can be connected in parallel (≤8)

[1] Test conditions: 0.2C Charging/Discharging, @25°C, 80% Dod



Advantages of CFE Residential ESS

- Signal module could be installed in parallel connection.
- Integrated WIFI Modem in each unit, helps to solve problem quickly for after service.
- Direct connect with smart phone and battery BMS, solve after service for those site without internet.
- Remote upgrade firmware decrease after service.
- Radom connect battery ignore the voltage different.
- Provide wall mountain and ground install methods.
- Voltage, current sampling precision, benefits SOC mathematic more accurate.
- SOC mathematic more accurately and never jump.

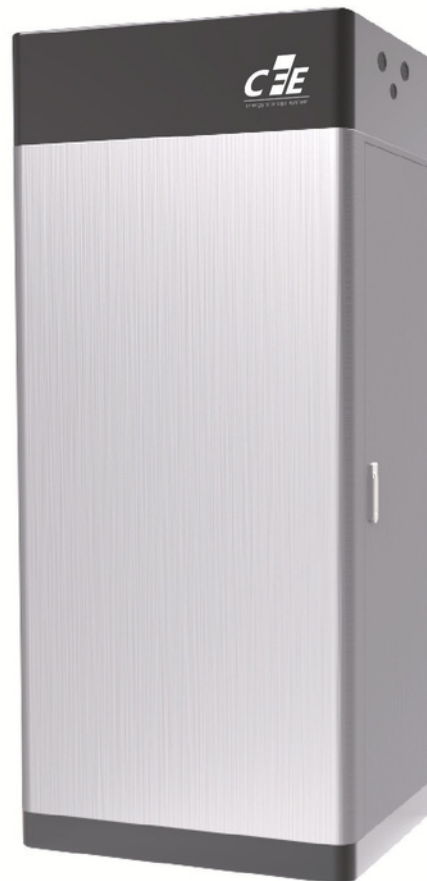


CFE Residential ESS Products SPEC

Main models & Technical spec

Model		Powercube						
Battery Module2 Modules			3	4	5	6	7	8
CFE-5100S Battery Capacity [Ah]200			Modules	Modules	Modules	Modules	Modules	Modules
CFE-5100S Nominal Battery Energy [kWh]10.24			300	400	500	600	700	800
Working Voltage [V]		15.36		20.48	25.44	30.72	35.84	40.96
Operating Temp. Range [°C]		-20~50						
Calendar Life [Cycles][1]		6000						
Nominal Voltage [V]		51.2						
Protection Level		IP65						
Communication		CAN / RS485						
Certification & Safety Standard		TUV/CE/EN62619/IEC62040/UN38.3/CEC Accredited						
Compatible Inverters		Goodwe Victron Imeon Solis Luxpower Growatt GMDE Sofar Voltronic Deye						
		Matching of other brand inverters within three days						
Warranty		10 Years						
Warranty	Document	Yes						
Supplied Color		White						
Pros		Can be used in both off-grid and hybrid setups, compact design, module expansion						
Battery Protection		Over-Current/Over-Voltage/Short Circuit/Under-Voltage/Over Temperature						
Installation		Cabinet or Wall Mounting						
Protective Class		I						
Relative Humidity (R H)		20~60 (No condensed water)						
Cooling Type		Ambient cooling						

[1] Test conditions: 0.2C Charging/Discharging, @25°C, 80% Dod



Model	Powercube 1	
Battery Module	2 * CFE-5100S Nominal Voltage [V]	4 * CFE-5100S
CFE-5100S Battery Capacity [Ah]	200 CFE-5100S Nominal Battery	51.2
Energy [kWh]	10.24 Working Voltage [V]	400
Operating Temp. Range [°C]		20.4
Calendar Life [Cycles] [1]	42~54	8
Protection Level	-20~50	
Size L*W*H [mm]	568 * 146 * 1047 The color of power box shell can be customized	6000
		IP55
[1] Test condition: 0.2C Charging/Discharging, @25°C, 80%DOD		580 * 387 * 1117

Model	Powercube 2	
Battery Module	2 * CFE-5100S Nominal Voltage [V]	4 * CFE-5100S
CFE-5100S Battery Capacity [Ah]	200 CFE-5100S Nominal Battery	51.2
Energy [kWh]	10.24 Working Voltage [V]	400
Operating Temp. Range [°C]		20.4
Calendar Life [Cycles] [1]	42~54	8
Protection Level	-20~50	
Size L*W*H [mm]	568 * 146 * 1300 The color of power box shell can be customized	6000
		IP55
[1] Test condition: 0.2C Charging/Discharging, @25°C, 80%DOD		580 * 387 * 1300