





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



Global Exclusive Distributor



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CNBM INTERNATIONAL CORPORATION

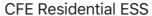
English Language

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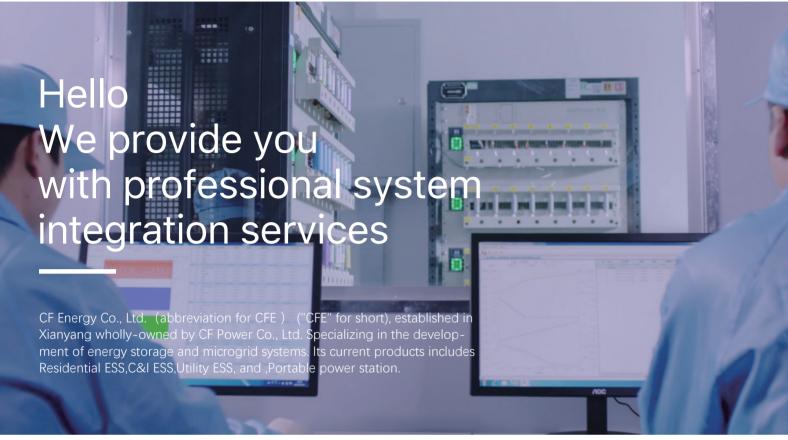
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CFE Residential ESS









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 capacity3+ GWh deployed to market200+ R&D engineers and scientists6% 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



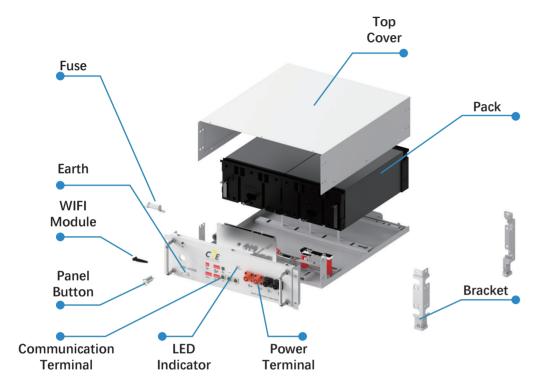
Quality Certifications

IATF16949, ISO14001/9001, OHSAS18001





CFE-5100S





SW1	DIP switch select for CAN or RS485
SW2	Resistance for communication and DIP switch for parallel connection
SW3	Switch for battery's Address select
SW4 & SW5	Communication interface for battery or master battery with Inverter
Reset	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 Standard	CB (UL1973,IEC62040,IEC62619)		
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 Module	2 Modules	3 Modules	4 Modules	5 Modules	6 Modules	7 Modules	8 Modules	
CFE-5100S Battery Capacity [Ah]	200	300	400	500	600	700	800	
CFE-5100S Nominal Battery Energy [kWh]	10.24	15.36	20.48	25.6	30.72	35.84	40.96	
Working Voltage [V]	42~54							
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							
C	Goodwe Victron Imeon Solis Luxpower Growatt GMDE Sofar Voltronic Deye							
Compatible Inverters	Matching of other brand inverters within three days							
Warranty	10 Years							
Warranty Document Supplied	Yes							
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





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



Model	Powercube 1			
Battery Module	2 * CFE-5100S	4 * CFE-5100S		
Nominal Voltage [V]	51.2			
CFE-5100S Battery Capacity [Ah]	200 400			
CFE-5100S Nominal Battery Energy [kWh]	10.24	20.48		
Working Voltage [V]	42~54			
Operating Temp. Range [℃]	-20~50			
Calendar Life [Cycles] [1]	6000			
Protection Level	IP55			
Size L*W*H [mm]	568 * 146 * 1047	580 * 387 * 1117		







Model	Powercube 2			
Battery Module	2 * CFE-5100S	4 * CFE-5100S		
Nominal Voltage [V]	51.2			
CFE-5100S Battery Capacity [Ah]	200	400		
CFE-5100S Nominal Battery Energy [kWh]	10.24	20.48		
Working Voltage [V]	42~54			
Operating Temp. Range [℃]	-20~50			
Calendar Life [Cycles] [1]	6000			
Protection Level	IP55			
Size L*W*H [mm]	568 * 146 * 1300	580 * 387 * 1300		

The color of power box shell can be customized

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



