



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

CFE Residential ESS



Global Exclusive Distributor



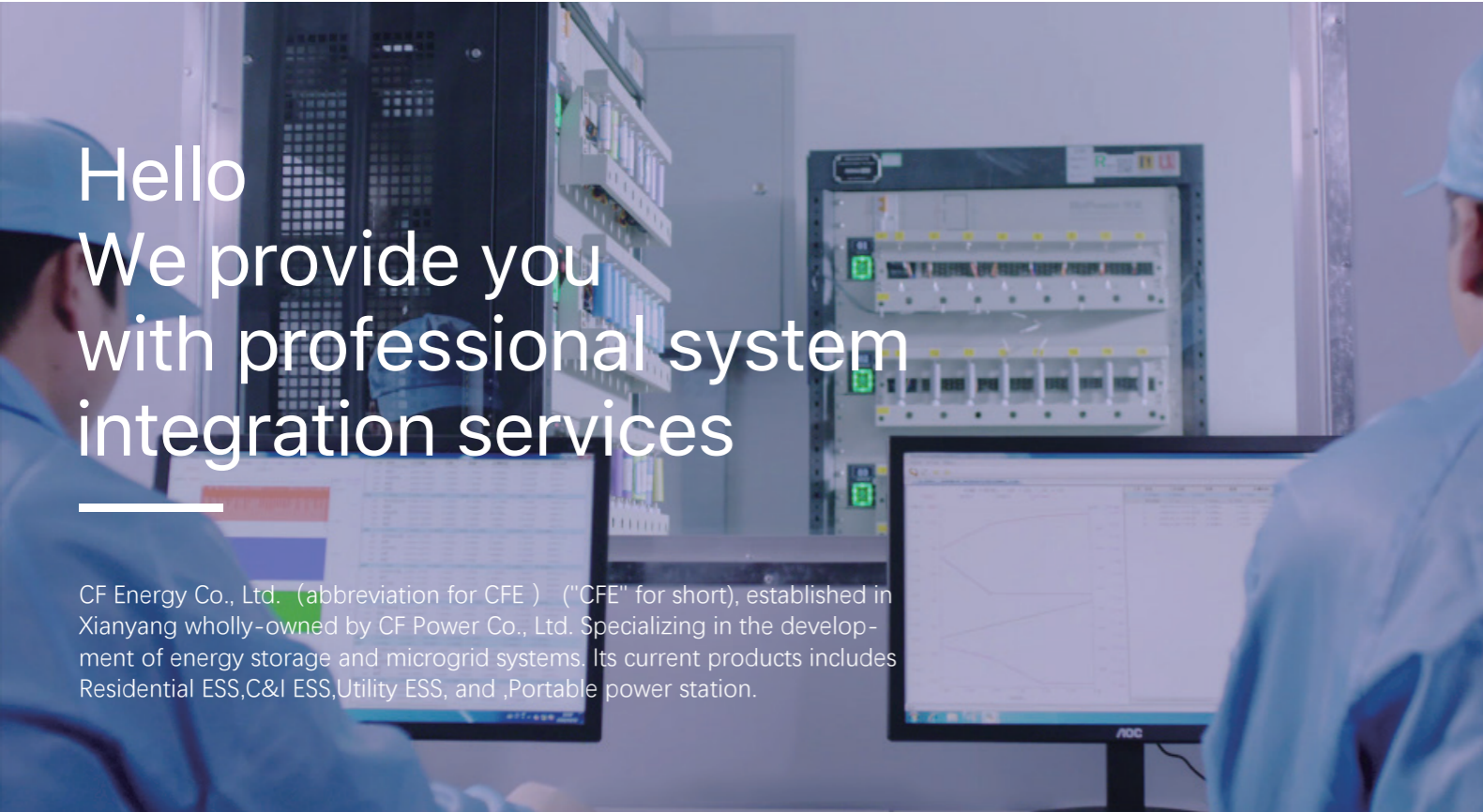
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Hello
We provide you
with professional system
integration services

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.



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

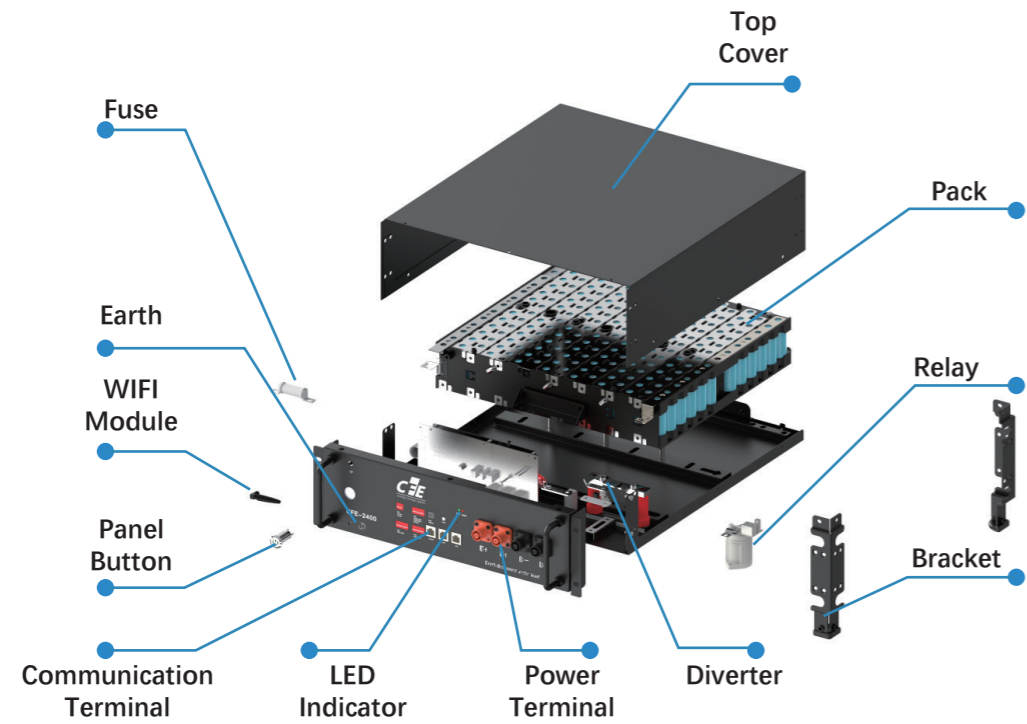


Quality Certifications

IATF16949, ISO14001/9001, OHSAS18001



CFE-2400



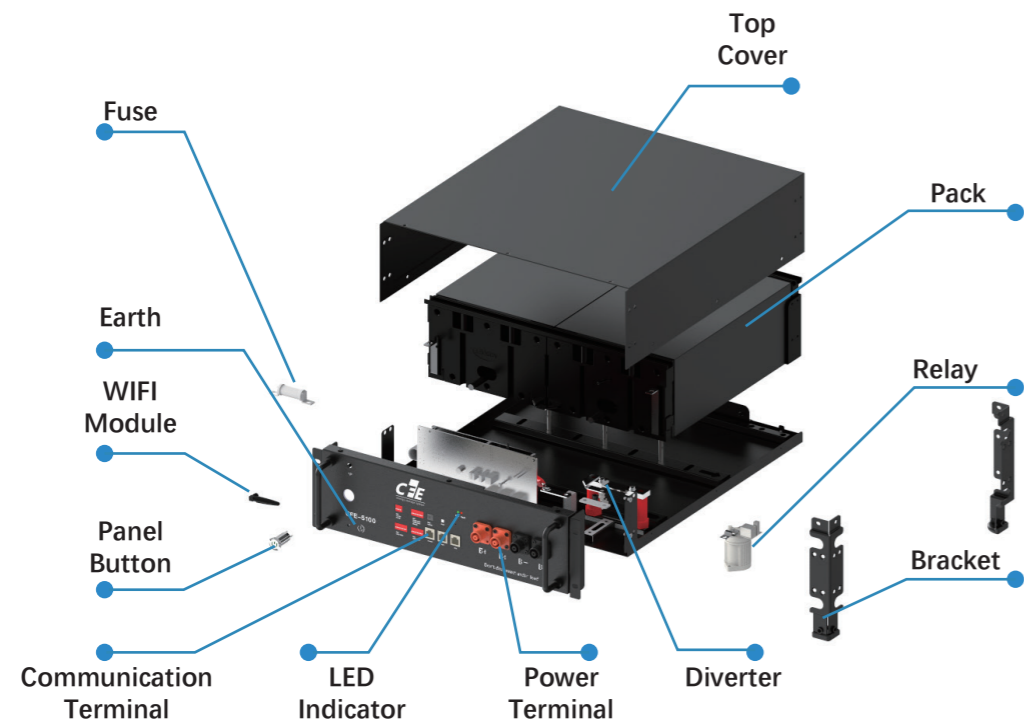
SW1	DIP switch select for CAN or RS485
SW2	Resistance for communication and DIP switch for parallel or Series connection
SW3	Switch for battery's Address select
SW4 & SW5	Communication interface for battery or master battery with Inverter
Reset	Reset the WIFI or GPPS/GPS module configure



Main models & Technical spec

Index	Spec
Model	CFE-2400
Nominal Battery Energy	2.4kWh
Nominal Capacity	48Ah
Nominal Voltage	51.2V
Charging Cut-off vol.	58.4V
Discharging End-off vol.	44.8V
Recommend C Rate	1C
Continuous Max C Rate	1C
Net Weight	27.5 Kg
Dimension [W*D*H]	442*500*133mm
Charging Temp. Range	0 ~ 50°C
Discharging Temp. Range	-10 ~ 55°C
Calendar Life	6000 Cycles
Protection Level	IP20
Communication	CAN / RS485
Certification & Safety Standard	CB (UL1973,IEC62040,IEC62619)
Warranty	10 Years

CFE-5100



SW1	DIP switch select for CAN or RS485
SW2	Resistance for communication and DIP switch for parallel or Series 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

Index	Spec
Model	CFE-5100
Nominal Battery Energy	5.1kWh
Nominal Capacity	100Ah
Nominal Voltage	51.2V
Charging Cut-off vol.	58.4V
Discharging End-off vol.	44.8V
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	6000 Cycles
Protection Level	IP20
Communication	CAN / RS485
Certification & Safety Standard	CB (UL1973,IEC62040,IEC62619)
Warranty	10 Years





CFE Residential ESS Products SPEC

Main models & Technical spec

Index	Spec						
Model	Powercube						
Battery Module	2 Modules	3 Modules	4 Modules	5 Modules	6 Modules	7 Modules	8 Modules
CFE-2400 Battery Capacity [Ah]	96	144	192	240	288	336	384
CFE-5100 Battery Capacity [Ah]	200	300	400	500	600	700	800
CFE-2400 Nominal Battery Energy [kWh]	4.914	7.317	9.828	12.267	14.724	17.181	19.638
CFE-5100 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]	6000						
Nominal Voltage [V]	51.2						
Protection Level	IP65						
Communication	CAN / RS485						
Certification & Safety Standard	TUV/CE/EN62619/IEC62040/UN38.3/CEC Accredited						
Scalability [kWh]	8pcs in parallel or series						
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 Supplied	Yes						
Color	White						
Pros	Can be used in both off-grid and hybrid setups, compact design, modular 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						

Advantages of CFE Residential ESS

- Signal module could be installed in parallel or serial 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.
- Relay included in each module, which is more stable and reliable than MOSfet.
- Radom connect battery ignore the voltage different.
- Provide wall mountain and ground install methods.
- Voltage, current sampling precision, benefits SOC mathematic more accuracy.
- SOC mathematic more correctly and never jump.

