

# BESS Residential Solution

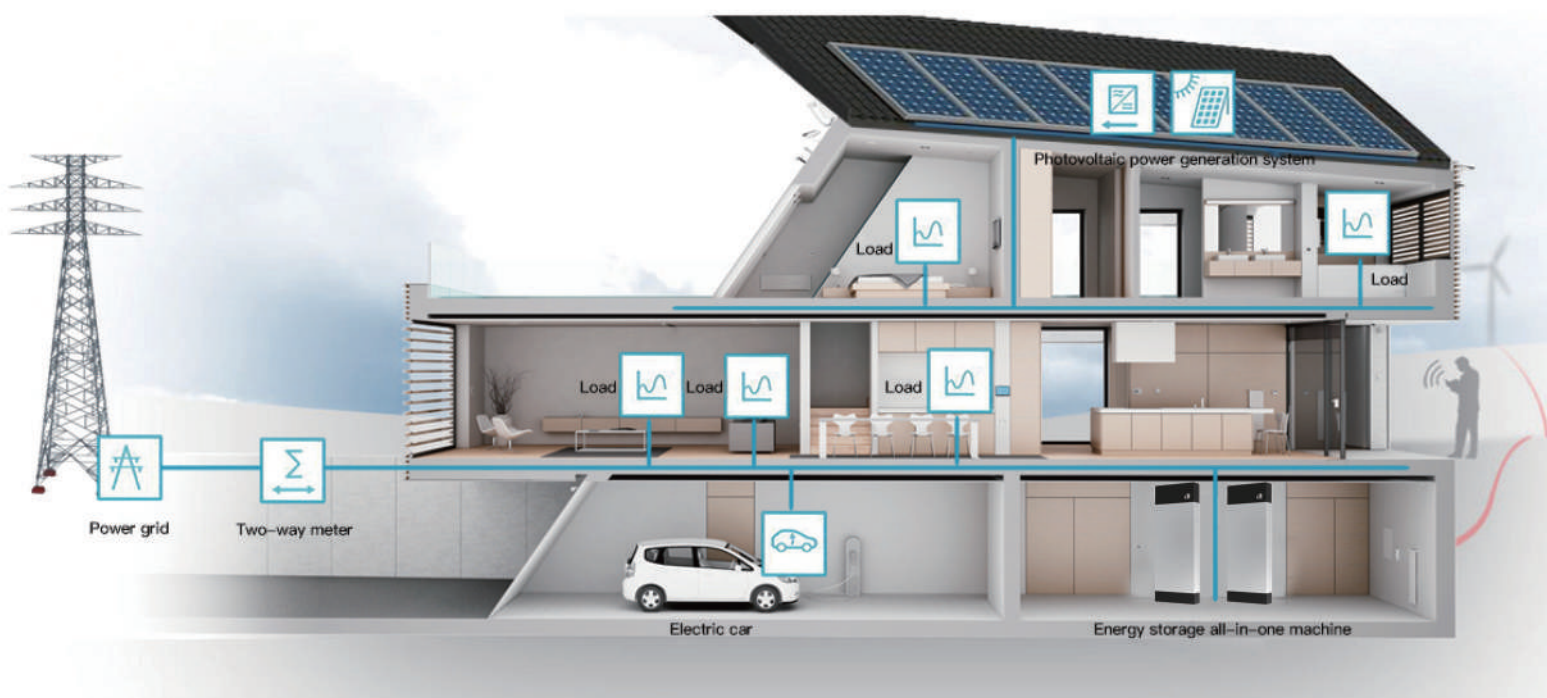


CF Energy GmbH  
Custozzagasse 13 / Top 4,  
1030, Vienna, Austria  
Tel: +43 664 9996 3994  
Web: <https://cfenergy.co/>  
E-mail: [emea@cfenergy.co](mailto:emea@cfenergy.co)



# Top Li-ion Battery Manufacturer in China

- More than 200 experienced engineers team
- R&D investment exceeds 6% of sales revenue
- 12GWh annual fully automatic lithium battery production capacity
- The R&D management team has more than 20 years of experience in the clean energy industry





### Safety

LFP (Lithium Iron Phosphate) the highest safety



### Up to 8 Series or Parallel

Flexible to increase voltage capacity without any other equipment or settings



### Cycle Life

≥6000 Cycles



### WiFi & APP

Integrated WiFi Modem  
OTA online upgrade convenient after-sales service



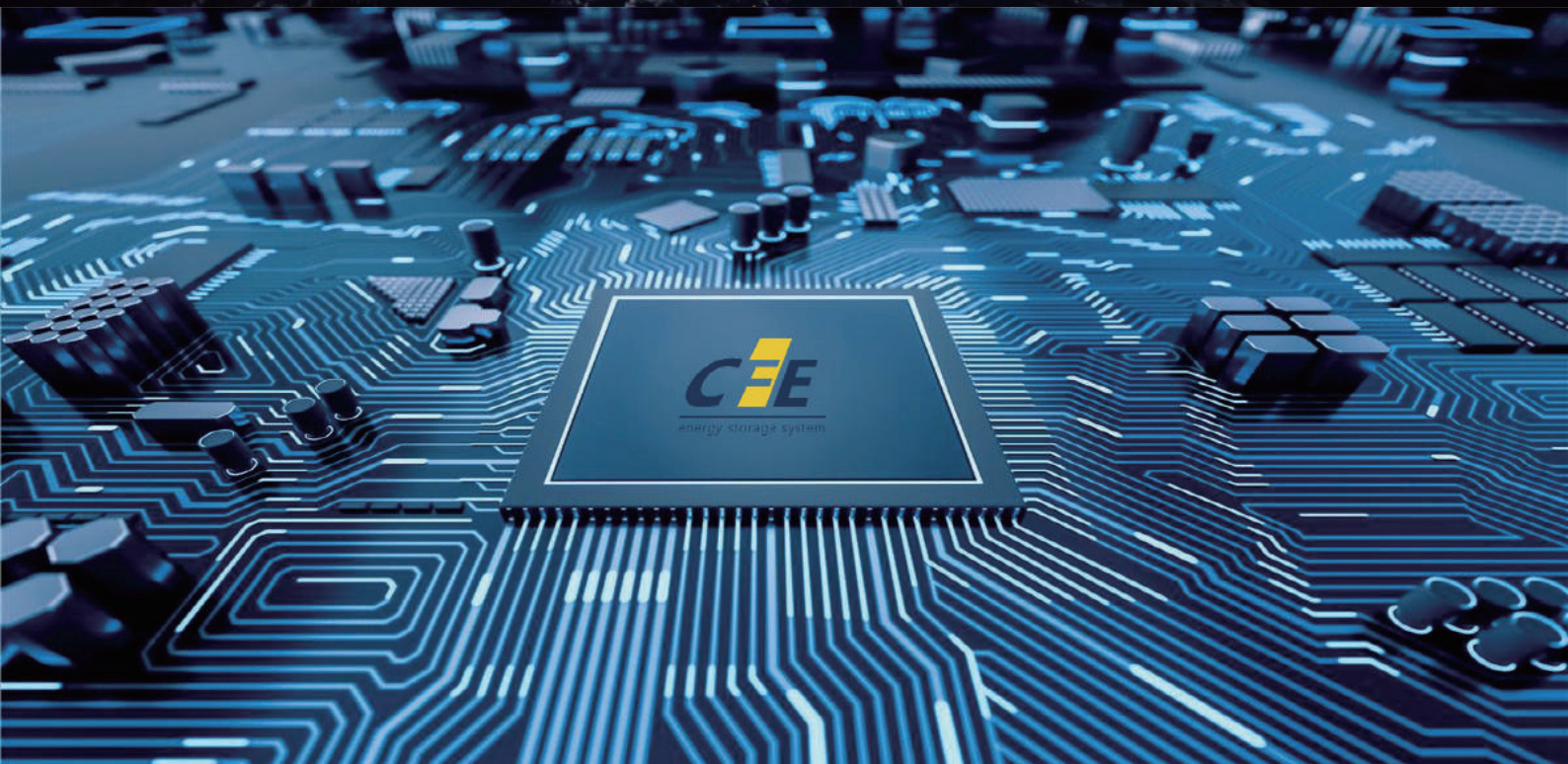
### Installation

Simple buckle fixing  
minimize the installation time and cost



### High-precision SOC

Accurate sampling of voltage and current SOC mathematic more accurate and never jump

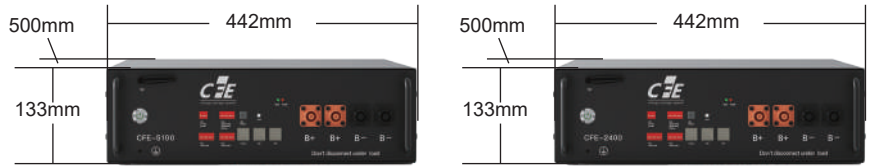


RECOGNIZED COMPONENT



Intertek





Basic Parameters	CFE 5100	CFE 2400
Nominal Voltage (V)	51.2	51.2
Nominal Capacity (Wh)	5120	2457
Usable Capacity (Wh)	4608	2211
Dimension (mm)	442*500*133	442*500*133
Weight (kg)	42	27
Voltage (V)	48 ~ 56	48 ~ 56
Charge / Discharge Current (A)	60 (Recommend)	30 (Recommend)
	60 (Max)	48 (Max)
	100 (Peak @ 15s)	60 (Peak @ 15s)



Communication Port	CAN / RS485
Single string quantity (pcs)	8
Working Temperature/°C (Charge)	0~45
Working Temperature/°C (Discharge)	-10~55
Shelf Temperature/°C	-20~60
Humidity	5~85%
Altitude (m)	<2000
IP Rating	IP20
Warranty	10 years
Cycle life [1]	6000
Authentication Level	CE & TUV (IEC 62619, IEC 62040) UN38.3
Cooling Type	Ambient Cooling
Installation	Cabinet or Wall Mounting

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

RECOGNIZED  
COMPONENT



Intertek





Basic Parameters	Powercube (Parallel)			Powercube (Series)		
	2 Modules	3 Modules	4 Modules	2 Modules	3 Modules	4 Modules
Battery Module	2 Modules	3 Modules	4 Modules	2 Modules	3 Modules	4 Modules
CFE-2400 Battery Capacity (Ah)	96	144	192	48	48	48
CFE-5100 Battery Capacity (Ah)	200	300	400	100	100	100
CFE-2400 Nominal Battery Energy (kWh)	4.914	7.317	9.828	4.914	7.317	9.828
CFE-5100 Nominal Battery Energy (kWh)	10.24	15.36	20.48	10.24	15.36	20.48
Working Voltage (V)	48~56	48~56	48~56	96~112	114~168	192~224
Nominal Voltage (V)	51.2	51.2	51.2	102.4	153.6	204.8
Operating Temp. Range (°C)	-20 ~ 50					
IP Rating	IP55					
Color	White / Silver					
Installation	Cabinet or Wall Mounting					

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



Battery Specifications	CREEK2-5-A	CREEK2-10-A	CREEK5-10-A	CREEK5-15-A	CREEK5-20-A
Capacity (kWh)	4.91	9.83	10.24	15.36	20.48
Battery voltage range (V)	48 ~ 56	48 ~ 56	48 ~ 56	48 ~ 56	48 ~ 56
Recommended battery voltage (V)	51.2	51.2	51.2	51.2	51.2
Cut Off Voltage (V)	48	48	48	48	48
Max. charging Voltage (V)	56	56	56	56	56
Max. Protective Voltage (V)	58	58	58	58	58
Dimension (W/D/H [mm])	580*350*1280	580*350*1800	580*350*1280	580*350*1800	580*350*1800
System Weight (kg)	110	167	149	197	245
Max. charge/discharge current (A)	60/60	120/120	120/120	120/120	120/120
Peak charge/discharge current (A)	60/60	120/120	120/120	120/120	120/120
Communication interfaces	CAN / RS485 / WiFi / LAN / DRM				
Reverse connect protection	Yes	Yes	Yes	Yes	Yes
Warranty	10 Year Performance Warranty				



5-20kWh Flexible Portfolio

Fast Installation

High Energy Density

All in One

Scalability

WIFI & APP

## Efficiency

MPPT Efficiency 99.90%

Euro Efficiency 97%

Max. Efficiency 97.60%

Max. Battery charge Efficiency 95%

Max. Battery discharge Efficiency 95%

RECOGNIZED  
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PCS Specifications	CREEK2-5-A	CREEK2-10-A	CREEK5-10-A	CREEK5-15-A	CREEK5-20-A
<b>DC input</b>					
Max. recommended DC power (W)	4600	6000	6000	6000	7000
Max. DC voltage (V)	500	500	500	500	500
Nominal DC operating voltage (V)	360	360	360	360	360
MPPT voltage range (V)	125 ~ 500	125 ~ 500	170 ~ 500	170 ~ 500	220 ~ 500
MPPT voltage range @ full load (V)	150 ~ 500	150 ~ 500	150 ~ 500	150 ~ 500	150 ~ 500
Max. input current (A)	14/14	14/14	14/14	14/14	14/14
Max. short circuit current (A)	17.5/17.5	17.5/17.5	17.5/17.5	17.5/17.5	17.5/17.5
Start input voltage (V)	125	125	125	125	125
No. of MPP trackers	2	2	2	2	2
Strings per MPP tracker	1	1	1	1	1
Max. inverter backfeed current to array	0	0	0	0	0
DC disconnection switch	/	/	/	/	/
<b>AC output</b>					
Nominal AC power (VA)	3600	4000	4000	5000	5000
Max. apparent AC power (VA)	3600	4000	4000	5000	5000
Rated grid voltage(range) (V)	230 (176 to 270)				
Rated grid frequency (Hz)	50/60	50/60	50/60	50/60	50/60
Nominal AC current (A)	16	16	16	16	16
Max.AC current (A)	16	16	16	16	16
Displacement power factor	0.99 leading...0.99 lagging				
Total harmonic distortion (THDI)	< 2%	< 2%	< 2%	< 2%	< 2%
Load control	optional	optional	optional	optional	optional
<b>AC input</b>					
Nominal AC power (VA)	3600	4000	4000	5000	5000
Rated grid voltage(range) (V)	230 (176 to 270)				
Rated grid frequency (Hz)	50/60	50/60	50/60	50/60	50/60
Nominal AC current (A)	16	17.4	17.4	21.7	21.7
Max.AC current (A)	16	17.4	17.4	21.7	21.7
Displacement power factor	0.99 leading...0.99 lagging				
AC inrush current	35	35	35	35	35
<b>EPS output</b>					
EPS rated power (VA)	3600	4000	4000	5000	5000
Max. EPS power (VA)	3600	4000	4000	5000	5000
EPS rated voltage, Frequency	230VAC, 50/60Hz				
EPS rated current (A)	16	17.4	17.4	21.7	21.7
Max. EPS current (A)	16	17.4	17.4	21.7	21.7
Switch time (s)	<500ms	<500ms	<500ms	<500ms	<500ms
Total harmonic distortion (THDv)	<2%	<2%	<2%	<2%	<2%
Parallel operation	Yes	Yes	Yes	Yes	Yes
Compatible with the generator	Yes (signal provided only)				





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

#### CF Energy GmbH

Company Address:  
Custozzagasse 13 / Top 4, 1030, Vienna, Austria  
Tel: +43 664 9996 3994  
Web: <https://cfenergy.co/>  
E-mail: [emea@cfenergy.co](mailto:emea@cfenergy.co)

#### CF Energy Co., Ltd.

Company Address:  
Intelligent Manufacturing Base, Xianyang, Shaanxi, PRC.  
Tel: (+86) 029-38367888  
Web: [www.cfenergygroup.com](http://www.cfenergygroup.com)  
E-mail: [sales@cfenergygroup.com](mailto:sales@cfenergygroup.com)