

BESS Residential Solutions

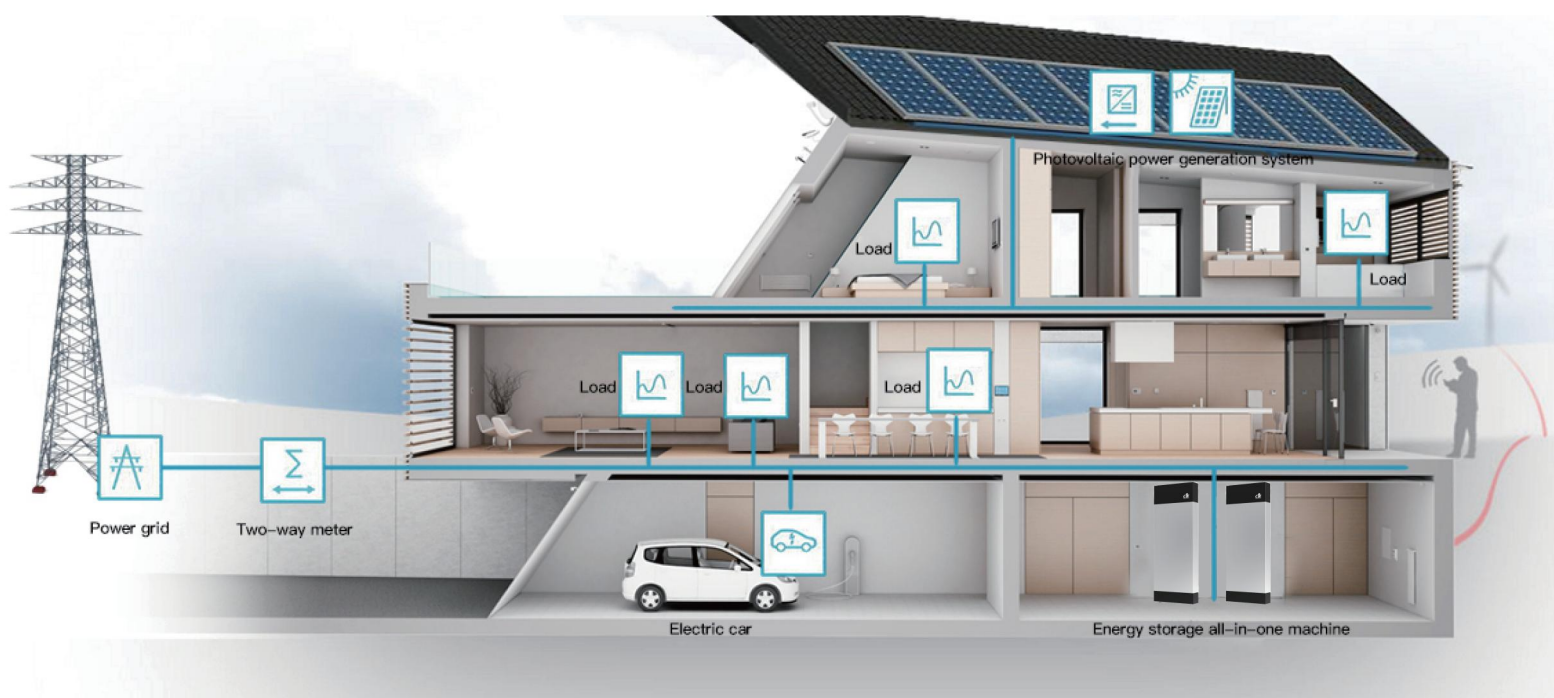


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A Top Li-ion Battery Manufacturer in China

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





Safety

LFP (Lithium Iron Phosphate) for higher safety



Up to 8 in Series or Parallel

Flexibility to increase voltage and capacity without needing other equipment



Cycle Life

≥6000 Cycles



WiFi & APP

Integrated WiFi Modem for OTA upgrades and convenient after-sales service



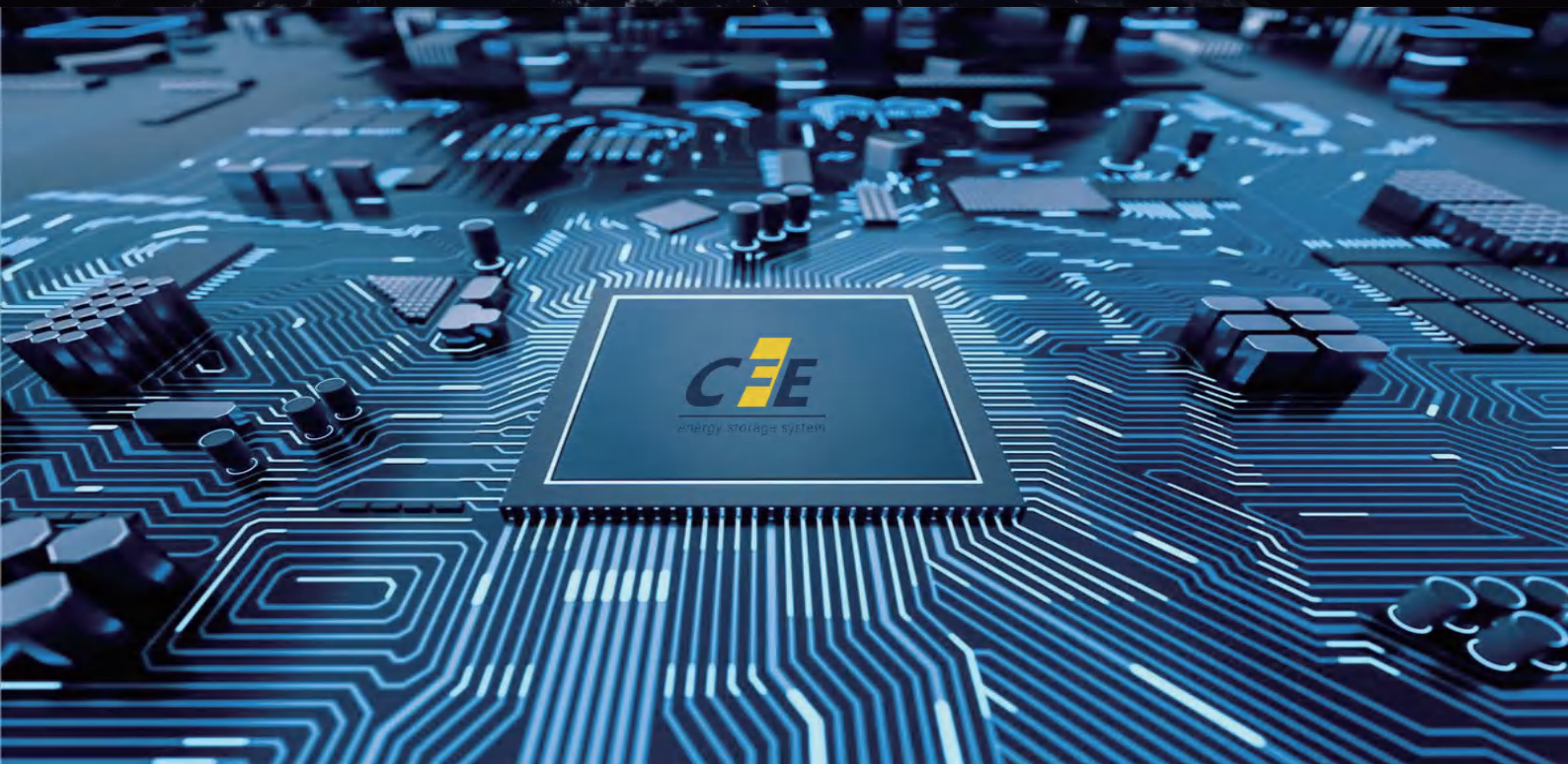
Installation

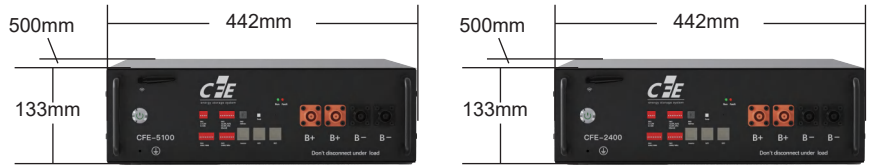
Simple connection to minimize installation time and cost



High-Precision SOC

More accurate sampling of voltage and current as well as improved SOC measurement





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



Communication Port	CAN / RS485
Single Stack Quantity (pcs)	8
Operating Temperature (°C) (Charge)	0 ~ 45
Operating Temperature (°C) (Discharge)	-10 ~ 55
Shelf Temperature (°C)	-20 ~ 60
Relative Humidity (RH)	20 ~ 60% (No condensed water)
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	Floor, Wall, Rack, or Cabinet Mounting

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



Basic Parameters	Powercube (Parallel)			Powercube (Series)		
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
Operating 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					
Installation	Floor Mounting					



Basic Parameters	CREEK2	CREEK4
Capacity (kWh)	10.24	20.48
Operating Voltage (V)	40 ~ 58	40 ~ 58
Nominal Voltage (V)	51.2	51.2
Cut Off Voltage (V)	40	40
Max. Charging Voltage (V)	58	58
Max. Protective Voltage (V)	58	58
System Dimensions [WDH] (mm)	580 * 350 * 1280	580 * 350 * 1800
System Weight (Excl. BATT.) (kg)	67	82
Max. Charge / Discharge Current (A)	95 / 110	95 / 110
Peak Charge / Discharge Current (A)	95 / 110	95 / 110
Communication Interfaces	CAN / RS485 / WiFi / LAN / DRM	
Reverse Connection Protection	Yes	Yes
Warranty	Five (5) Years, Performance Warranty Ten (10) Years	



- 5-20 kWh Flexible Portfolio
- 3-6 kW Flexible Inverter Rating
- Fast Installation
- High Energy Density
- All-In-One Design
- Scalability
- WiFi Integration

Efficiency

- MPPT Efficiency 99.90%
- European Efficiency 97%
- Max. Efficiency 97.60%
- Max. Battery Charge Efficiency 95%
- Max. Battery Discharge Efficiency 95%



PCS Specifications	CREEK2	CREEK4
DC Input		
Max. Recommended DC Power (W)	7000	7000
Max. DC Voltage (V)	550	550
Nominal DC Operating Voltage (V)	360	360
MPPT Voltage Range (V)	125 ~ 500	125 ~ 500
MPPT Voltage Range at Full Load (V)	220 ~ 500	220 ~ 500
Max. Input Current (A)	14 / 14	14 / 14
Max. Short Circuit Current (A)	17.5 / 17.5	17.5 / 17.5
Start Input Voltage (V)	125	125
No. of MPPT	2	2
Strings per MPPT	1	1
Max. Inverter Backfeed Current to Array	0	0
PV Disconnection Switch	Yes	Yes
AC Output		
Nominal AC Power (VA)	6000	6000
Max. Apparent AC Power (VA)	6000	6000
Rated Grid Voltage (Range) (V)	230 (176 to 270)	
Rated Grid Frequency (Hz)	50 / 60	50 / 60
Nominal AC Current (A)	26	26
Max. AC Current (A)	26	26
Displacement Power Factor	0.8 leading...0.8 lagging	
Total Harmonic Distortion (THDi)	< 2%	< 2%
Load Control	Optional	Optional
AC Grid Connection Type	Single Phase	
AC Input		
Nominal AC Power (VA)	6000	6000
Rated Grid Voltage (Range) (V)	230 (176 to 270)	
Rated Grid Frequency (Hz)	50 / 60	50 / 60
Nominal AC Current (A)	26	26
Max. AC Current (A)	26	26
Displacement Power Factor	0.8 leading...0.8 lagging	
AC Inrush Current	35	35
EPS Output		
EPS Rated Power (VA)	6000	6000
Max. EPS Power (VA)	6000	6000
EPS Rated Voltage, Frequency	230VAC, 50 / 60Hz	
EPS Rated Current (A)	26	26
Max. EPS Current (A)	26	26
Switch Time	<20ms	<20ms
Total Harmonic Distortion (THDv)	<2%	<2%
Parallel Operation	Yes	Yes
Compatible with the Generator	Yes (start / stop signal)	





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

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