

# CFE

## energy storage system

### CFE-2400/5100 Battery Module

compatible with leading low-voltage and high-voltage inverters, both single and three-phase





### Security

LFP battery (Lithium Iron Phosphate) provides the highest level of safety



### DU to 8 units can be connected in series or parallel

Flexible solution to increase energy storage capacity without any additional equipment or changes to energy storage settings



### Lifecycle

Over 6000 cycles



### WiFi and Application

Integrated WiFi OTA modem allows for online software updates, providing convenient post-sale support



### Installation

Simple plug-and-play connections, minimizing installation time and costs



### High-Precision State of Charge (SOC)

Accurate sampling of voltage and current for mathematical State of Charge (SOC), enabling efficient assessment of internal losses and battery efficiency

## Basic parameters

## CFE 5100

Nominal voltage(V)	51.2
Nominal capacity ( Wh )	5120
Usable capacity ( Wh )	4608
Depth of discharge ( DOD)	90%
Dimensions (mm)	442*500*133
Weight ( kg)	42
Voltage range (V)	48 ~ 56
Charging/discharging current ( A)	60 (Recommended)
Communication port	CAN / RS485
Maximum number of individual battery module strings (pcs.)	8
Operating temperature/°C (charging)	0 ~ 45
Operating temperature/°C (discharging)	-10 ~ 55
Storage temperature/°C	-20 ~ 60
Ingress protection (IP)	5 ~ 85%
Height	<2000
Ingress protection (IP)	IP20
Warranty	10 lat
Lifecycle ^ [1]	6000
Certification	CE i TUV ( IEC 62619, IEC 62040) UL1973 UN38.3
Cooling type	Air cooling from the surroundings
Installation	Installation cabinets / Wall mounting / Ground mounting

[1] Test conditions: Charging/Discharging 0,2 C, @25 °C, 80% DOD



Dustproof



Moisture-proof



Sunscreen



beeIN



## Advantage

Sheet metal structure production, light weight, high strength

Multiple protection process, anti-corrosion and anti-rust, smooth surface

Fine workmanship, strong safety, easy to use

Product Name	Cube 1	Cube 2	Cube 2	Cube 4	Cube 4
Dimension [H/W/D] (mm)	547*582*223	1152*582*253	1225*582*253	1152*582*388	1225*582*388
Battery Qty	1 pcs	2 pcs	2 pcs	4 pcs	4 pcs
Operating Temp. Range [°C]	-20 ~ 50	-20 ~ 50	-20 ~ 50	-20 ~ 50	-20 ~ 50
IP Rating	IP55	IP55	IP55	IP55	IP55
Color	White	White	Silver	White	Silver
Shell Material	SPCC	SPCC	SPCC	SPCC	SPCC
Weight	20kg	32kg	38kg	45kg	50kg
Installation	Wall Mount	Floor mount & Wall mount			



**TOP-CLASS SUPPLIER OF BATTERY POWER SUPPLY SYSTEM  
TOP-CLASS SUPPLIER OF ENERGY STORAGE SYSTEMS AND MICROGRIDS**



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## Compatible inverters

No	Inverter Brand	Inverter type	Protocal type	Batt DIP settings	DIP Pics	Inverter Batt settings	Remark	Video Link
1		Low Voltage High Voltage	CAN	SW1: 1&2 up SW4(CANL): 5up SW5(CANH): 4up		CFE	Please upgrade the inverter and battery firmware to the latest	<a href="https://www.cfenergygroup.com/video/483.html">https://www.cfenergygroup.com/video/483.html</a>
2		Low Voltage High Voltage	CAN	SW1: 1&2 up SW4(CANL): 5up SW5(CANH): 4up		General	Please upgrade the inverter and battery firmware to the latest	<a href="https://www.cfenergygroup.com/video/482.html">https://www.cfenergygroup.com/video/482.html</a>
3		Low Voltage High Voltage	CAN	SW1: 1&2 up SW4(CANL): 5up SW5(CANH): 4up		Lithium	Please upgrade the inverter and battery firmware to the latest	<a href="https://www.cfenergygroup.com/video/485.html">https://www.cfenergygroup.com/video/485.html</a>
4		Low Voltage High Voltage	CAN	SW1: 1&2 up SW4(CANL): 5up SW5(CANH): 4up		CFE	Please upgrade the inverter and battery firmware to the latest	<a href="https://www.cfenergygroup.com/video/495.html">https://www.cfenergygroup.com/video/495.html</a>
5		Low Voltage	CAN	SW:1&2 up SW4(CANL): 5up SW5(CANH): 4up		2	Old luxpower (red switch) SW4(CANL): 3up SW5(CANH): 4up	<a href="https://www.cfenergygroup.com/video/494.html">https://www.cfenergygroup.com/video/494.html</a>
6		Low Voltage	RS485	SW1: 3&4 up SW4(485B): 3up SW5(485A): 5up		LIB	Please upgrade the inverter and battery firmware to the latest	<a href="https://www.cfenergygroup.com/video/493.html">https://www.cfenergygroup.com/video/493.html</a>
7		Low Voltage High Voltage	CAN	SW1: 1&2 up SW4(CANL): 5up SW5(CANH): 4up		Lithium	Please upgrade the inverter and battery firmware to the latest	<a href="https://www.cfenergygroup.com/video/496.html">https://www.cfenergygroup.com/video/496.html</a>
8		Low Voltage High Voltage	CAN	SW1: 1&2 up SW4(CANL): 5up SW5(CANH): 4up		Li L52	Please upgrade the inverter and battery firmware to the latest	/
9		Low Voltage High Voltage	CAN	SW1: 1&2 up SW4(CANL): 5up SW5(CANH): 4up		CFE	Please upgrade the inverter and battery firmware to the latest	<a href="https://www.cfenergygroup.com/video/494.html">https://www.cfenergygroup.com/video/494.html</a>
10		Low Voltage High Voltage	CAN	SW1: 1&2 up SW4(CANL): 5up SW5(CANH): 4up		Lithium	Please upgrade the inverter and battery firmware to the latest	/
11		Low Voltage	CAN	SW1: 1&2 up SW4(CANL): 5up SW5(CANH): 4up		CFE	Please upgrade the inverter and battery firmware to the latest	/
12		Low Voltage	RS485	SW1: 3&4 up SW4 (485B): 8up SW5 (485A) :7up		WOW	Please contact technical support to upgrade the battery to SRNE version	/
13		Low Voltage High Voltage	CAN	SW1: 1&2 up SW4(CANL): 5up SW5(CANH): 4up		Lithium	Please upgrade the inverter and battery firmware to the latest	/
14		Low Voltage High Voltage	CAN	SW1: 1&2 up SW4(CANL): 5up SW5(CANH): 4up		CFE	Please upgrade the inverter and battery firmware to the latest	<a href="https://www.cfenergygroup.com/video/497.html">https://www.cfenergygroup.com/video/497.html</a>
15		Low Voltage	CAN	SW1: 1&2 up SW4 (CANL): 7up SW5 (CANH) :8up		Pylon	Please upgrade the inverter and battery firmware to the latest	/
16		Low Voltage	CAN	SW1: 1&2 up SW4(CANL): 5up SW5(CANH): 4up		Cerbo GX BMS	Please use Victron BMS cable and upgrade the inverter and battery firmware to the latest	/
17		Low Voltage High Voltage	CAN	SW1: 1&2 up SW4(CANL): 5up SW5(CANH): 4up		Default Non Standard	Please upgrade the inverter and battery firmware to the latest	

Note: 1. Please follow the Internal communication settings table to set SW2&SW3

2. Please change the DIPs only when the battery is turned off

## Compatible inverters

No	Inverter Brand	Inverter type	Protocol type	Batt DIP settings	DIP Pics	Inverter Batt settings	Remark	Video Link
18	 科耀能源 KOYOEE	High Voltage	CAN	SW1: 1&2 up SW4(CANL): 5up SW5(CANH): 4up		CFE	Please upgrade the inverter and battery firmware to the latest	
19	 SUNGRO	High Voltage	CAN	SW1: 1&2 up SW4(CANL): 5up SW5(CANH): 4up		CFE	Please upgrade the inverter and battery firmware to the latest	
20	User-define Mode (Voltage Control)	Low Voltage	\	SW1: 1&2 up SW4(CANL): 5up SW5(CANH): 4up		User Define	charge voltage 53.8V float charge 53.6V cut off 48V equalization voltage 53.8V charging current 60A per battery discharge current 60A per battery	/

**Note:** 1. Please follow the Internal communication settings table to set SW2&SW3

2. Please change the DIPs only when the battery is turned off