

CFE Main Technical Datasheet



Safety

Lithium iron Phosphate battery
Proven track record



$\geq 90\%$

System charge and
discharge efficiency



≥ 6000 Cycles

Cell cycle life under energy
storage conditions



Distribution

High speed communication, power
distribution and metering. Two level
controllable switch for AC output



Active balance

High current high efficiency two way
active equalization technology



Installation

Modular design, indoor or
outdoor, space efficient

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CFE main technical indicators			
item	index		
System nominal			
rated power	500KW	1000 KW	1000 KW
Nominal capacity	2580KWh	3010 KWh	3440 KWh
Communication side			
Rated voltage	380V	380V	380V
Rated current	759A	1500A	1500A
Rated frequency	50Hz	50HZ	50HZ
Power factor	more than 0.98	more than 0.98	more than 0.98
Wiring	Three-phase three-wire	Three-phase three-wire	Three-phase three-wire
Isolation transformer	630 KVA	1250 KVA	1250 KVA
Inrush current	Less than 7 times Ie		
Harmonic distortion rate	Less than 3% (secondary side of transformer)		
DC side			
Rated voltage	768V	768V	768V
Lower limit voltage	600V	600V	600V
Upper limit voltage	876V	876V	876V
Rated current	650A	1300A	1300A
Cell specifications	280Ah	280Ah	280Ah
Number of batteries	2880	3360	3840
Number of modules	180	210	240
Module specifications	1P16S	1P16S	1P16S
Actual capacity	2580KWh	3010KWh	3440KWh
Battery management			
Cluster battery	12 groups	14 groups	16 groups
Cluster unit	12	14	16
Voltage accuracy	0.20%	0.20%	0.20%
Temperature accuracy	1%	1%	1%
SOC accuracy	5%	5%	5%
Power accuracy	1%	1%	1%
Cabinet			
Battery cabinet	966*855*2400	966*855*2156	966*855*2156
Control cabinet	2000*600*700	2000*600*700	2000*600*700
PCS cabinet	1400*825*2180	1400*825*2180	1400*825*2180
Air conditioning			
Installation method	Embedded	Embedded	Embedded
Cold power	15KWx2	15KWx2	15KWx2
Fire			
Fire fighting medium	Heptafluoropropane		
Spray method	Pipeline (battery room)		
	Fire detection tube (PCS room)		
Communication Interface			
wireless	2G, 1 minute update		
wired	Network, 5 seconds update		
System cycle life	>6000Cycle (25°C)	>6000Cycle (25°C)	>6000Cycle (25°C)
Capacity availability	>80%	>80%	>80%
weight	<20T	<41T	<45T
structure size	12.192m*2.438m*2.591m	12.192m*2.438m*2.591m	12.192m*2.438m*2.591m

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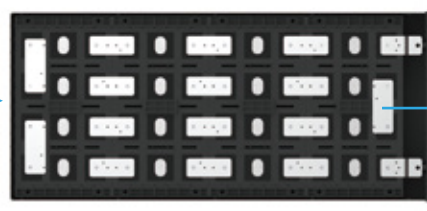
3.44MWh 40 foot container



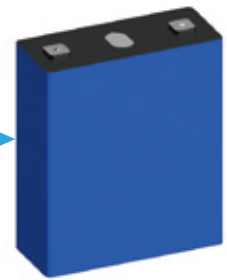
Rack(768V/280Ah/215.04KWh)



Pack(51.2V/280Ah/14335 Wh)



High voltage box panel (BMS)



Cell(3.2V/280Ah/895Wh)