

Extended Duration Power Backup Series

30-60mins

Data Center Energy Storage System



- 1 Good high-temperature performance, no need for air conditioning cooling below 40°C, saves energy.
- 2 The PACK module is designed with a modular standard, allowing for flexible combinations and easy maintenance.
- 3 It has a long cycle life, with 3000 cycles at 0.5C/0.5C, 80% DOD, at 25°C.
- 4 The touch LCD provides an intuitive display of various parameters, records, status, and alarms.
- 5 It supports parallel operation of multiple units and cabinet-level fire protection.
- 6 It supports two-line design to meet the requirements of UPS models.
- 7 It features a three-level BMS management system, ensuring the safe and reliable operation of the system from the cell level to the system level.
- 8 It has a high energy density, saving 70% of the floor space compared to lead-acid batteries.

Product parameters

Product model	CF22450U	CF192100U	CF224100U	CF384100U	CF480100U	CF512100U
Cell Material	LFP					
Nominal Voltage	224Vdc	192Vdc	224Vdc	384Vdc	480Vdc	512Vdc
Rated Charging Voltage	245Vdc	210Vdc	245Vdc	420Vdc	525Vdc	560Vdc
Nominal Capacity	50Ah/11.2kWh	100Ah/19.2kWh	100Ah/22.4kWh	100Ah/38.4kWh	100Ah/48kWh	100Ah/51.2kWh
Self-Discharge Rate	≤3% (0-30°C/3 months)					
Standard Discharge Current	25A Continuous discharge(0.5C)		50A Continuous discharge(0.5C)			
Maximum Discharge Current	50A Continuous discharge(1C)		200A Continuous discharge(2C)			
Standard Charging Current	12.5A (0.25C)	25A (0.25C)	25A (0.25C)	25A (0.25C)	25A (0.25C)	25A (0.25C)
Maximum Charging Current	25A (0.5C)	50A (0.5C)	50A (0.5C)	50A (0.5C)	50A (0.5C)	50A (0.5C)
Cycle Life	3000 times @80%DOD, 0.5C/0.5C					
Communication Interface	CAN; RS485; Dry contact					
Protection Functions	Over-temperature, over-current, short circuit, over-charging, over-discharging, etc.					
Dimensions (W*D*H)	600*800*1200mm	600*800*1200mm	600*800*1400mm	600*800*2000mm	600*800*2000mm	600*800*2000mm
Certifications	UN					
Environment						
Storage Temperature	0~40°C					
Operating Temperature	15~45°C (Recommended operating temperature: 20~25°C)					
Relative Humidity	5~95%					
Altitude	≤2000m					
Cell Specifications						
Nominal Capacity	50Ah	100Ah	100Ah	100Ah	100Ah	100Ah
Nominal Voltage	3.2Vdc	3.2Vdc	3.2Vdc	3.2Vdc	3.2Vdc	3.2Vdc
Operating Voltage Range	2.5~3.6Vdc	2.5~3.6Vdc	2.5~3.6Vdc	2.5~3.6Vdc	2.5~3.6Vdc	2.5~3.6Vdc
Battery Module Specifications						
Configuration	1P14S	1P15S	1P14S	1P15S	1P15S	1P16S
Nominal Voltage	44.8Vdc	48Vdc	44.8Vdc	48Vdc	48Vdc	51.2Vdc
Operating Voltage Range	39.2~49Vdc	42~53.5Vdc	39.2~49Vdc	42~53.5Vdc	42~52.5Vdc	44.8~56Vdc
Battery Pack Specifications						
Configuration	1P70S	1P60S	1P70S	1P120S	1P150S	1P160S
Nominal Capacity	50Ah	100Ah	100Ah	100Ah	100Ah	100Ah
Nominal Voltage	224Vdc	192Vdc	224Vdc	384Vdc	480Vdc	512Vdc
Operating Voltage Range	196~245Vdc	168~210Vdc	196~245Vdc	336~420Vdc	420~525Vdc	448~560Vdc
Weight	225Kg	300Kg	310Kg	490Kg	590Kg	610Kg



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