

# Short Duration Power Backup Series

## 5-15mins

### 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	CF24050U	CF48050U	CF486100U	CF512100U
Cell Material	LFP			
Nominal Voltage	240Vdc	480Vdc	486.4Vdc	512Vdc
Rated Charging Voltage	262.5Vdc	525Vdc	532Vdc	560Vdc
Nominal Capacity	50Ah/12kWh	50Ah/24kWh	100Ah/48.64kWh	100Ah/51.2kWh
Self-Discharge Rate	≤3% (0~30°C/3 months)			
Standard Discharge Current	50AContinuous discharge(1C)	50AContinuous discharge(1C)	100AContinuous discharge(1C)	100AContinuous discharge(1C)
Maximum Discharge Current	300AContinuous discharge(6C)	300AContinuous discharge(6C)	600AContinuous discharge(6C)	600AContinuous discharge(6C)
Standard Charging Current	25A(0.5C)	25A(0.5C)	50A(0.5C)	50A(0.5C)
Maximum Charging Current	50A(1C)	50A(1C)	100A(1C)	100A(1C)
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*1400mm	600*800*2000mm	600*800*2200mm	600*800*2200mm
Certifications	UN			
<b>Environment</b>				
Storage Temperature	0~40°C			
Operating Temperature	15~45°C (Recommended operating temperature: 20-25°C)			
Relative Humidity	5~95%			
Altitude	≤2000m			
<b>Cell Specifications</b>				
Nominal Capacity	50Ah	50Ah	50Ah	50Ah
Nominal Voltage	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
<b>Battery Module Specifications</b>				
Configuration	1P15S	1P15S	2P20S/2P18S	2P20S
Nominal Voltage	48Vdc	48Vdc	64/57.6Vdc	64Vdc
Operating Voltage Range	42~52.5Vdc	42~52.5Vdc	56~70Vdc/50.4~63Vdc	56~70Vdc
<b>Battery Pack Specifications</b>				
Configuration	1P75S	1P150S	2P152S	2P160S
Nominal Capacity	50Ah	50Ah	100Ah	100Ah
Nominal Voltage	240Vdc	480Vdc	486.4Vdc	512Vdc
Operating Voltage Range	210~262.5Vdc	420~525Vdc	425.6~532Vdc	448~560Vdc
Weight	290Kg	430Kg	790Kg	810Kg



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