

# 数据中心储能系列

DATA CENTER ENERGY STORAGE SERIES

昆宇电源  
COSPOWERS

## 5-15mins



- 1 高温性能好，40°C以下无需空调冷却，节省能源
- 2 PACK模块化标准设计，可以自由组合,易运维
- 3 循环长寿命，3000次@0.5C/0.5C，80%DOD，25°C
- 4 触摸LCD直观显示各类参数、记录、状态、告警等内容
- 5 支持多组并机，柜级消防
- 6 支持二线线设计，满足UPS机型要求
- 7 三级BMS管理，从电芯到系统，层层保障系统安全可靠运行
- 8 能量密度高，比铅酸蓄电池节省70%占地面积

### 产品参数

产品型号	CF24050U	CF48050U	CF486100U	CF512100U
电芯材料			磷酸铁锂	
标称电压	240Vdc	480Vdc	486.4Vdc	512Vdc
额定充电电压	262.5Vdc	525Vdc	532Vdc	560Vdc
标称容量	50Ah/12kWh	50Ah/24kWh	100Ah/48.64kWh	100Ah/51.2kWh
自放电率			≤3% (0~30°C/3个月)	
标准放电电流	50A连续放电(1C)	50A连续放电(1C)	100A连续放电(1C)	100A连续放电(1C)
最大放电电流	300A连续放电(6C)	300A连续放电(6C)	600A连续放电(6C)	600A连续放电(6C)
标准充电电流	25A(0.5C)	25A(0.5C)	50A(0.5C)	50A(0.5C)
最大充电电流	50A(1C)	50A(1C)	100A(1C)	100A(1C)
循环寿命			3000次 @80%DOD, 0.5C/0.5C	
通信接口			CAN; RS485; 干接点	
保护功能			过温, 过流, 短路, 过充, 过放等	
尺寸 (W*D*H)	600*800*1400mm	600*800*2000mm	600*800*2200mm	600*800*2200mm
认证			UN	
<b>环境</b>				
存储温度			0~40°C	
运行温度			15~45°C(推荐20~25°C运行)	
相对湿度			5~95%	
海拔			≤2000m	
<b>电芯规格参数</b>				
标称容量	50Ah	50Ah	50Ah	50Ah
标称电压	3.2Vdc	3.2Vdc	3.2Vdc	3.2Vdc
工作电压范围	2.5~3.6Vdc	2.5~3.6Vdc	2.5~3.6Vdc	2.5~3.6Vdc
<b>电池模块规格参数</b>				
配置	1P15S	1P15S	2P20S/2P18S	2P20S
标称电压	48Vdc	48Vdc	64/57.6Vdc	64Vdc
工作电压范围	42~52.5Vdc	42~52.5Vdc	56~70Vdc/50.4~63Vdc	56~70Vdc
<b>电池簇规格参数</b>				
配置	1P75S	1P150S	2P152S	2P160S
标称容量	50Ah	50Ah	100Ah	100Ah
标称电压	240Vdc	480Vdc	486.4Vdc	512Vdc
工作电压范围	210~262.5Vdc	420~525Vdc	425.6~532Vdc	448~560Vdc
重量	290Kg	430Kg	790Kg	810Kg



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# DATA CENTER ENERGY STORAGE SERIES

**COSPOWERS**

## 5-15mins



- 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
Working 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
Working 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
Working voltage range	210~262.5Vdc	420~525Vdc	425.6~532Vdc	448~560Vdc
Weight	290Kg	430Kg	790Kg	810Kg



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