

30-60mins



- 1

高温性能好，40℃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℃
- 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	CF22450U	CF192100U	CF224100U	CF384100U	CF480100U	CF512100U
电芯材料	磷酸铁锂					
标称电压	224Vdc	192Vdc	224Vdc	384Vdc	480Vdc	512Vdc
额定充电电压	245Vdc	210Vdc	245Vdc	420Vdc	525Vdc	560Vdc
标称容量	50Ah/11.2kWh	100Ah/19.2kWh	100Ah/22.4kWh	100Ah/38.4kWh	100Ah/48kWh	100Ah/51.2kWh
自放电率	≤3% (0~30°C/3 个月)					
标准放电电流	25A连续放电(0.5C)	50A连续放电(0.5C)	50A连续放电(0.5C)	50A连续放电(0.5C)	50A连续放电(0.5C)	50A连续放电(0.5C)
最大放电电流	50A连续放电(1C)	200A连续放电(2C)	200A连续放电(2C)	200A连续放电(2C)	200A连续放电(2C)	200A连续放电(2C)
标准充电电流	12.5A(0.25C)	25A(0.25C)	25A(0.25C)	25A(0.25C)	25A(0.25C)	25A(0.25C)
最大充电电流	25A(0.5C)	50A(0.5C)	50(0.5C)	50A(0.5C)	50A(0.5C)	50A(0.5C)
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*1200mm	600*800*1200mm	600*800*1400mm	600*800*2000mm	600*800*2000mm	600*800*2000mm
认证	UN认证					
环境						
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					
电芯规格参数						
标称容量	50Ah	100Ah	100Ah	100Ah	100Ah	100Ah
标称电压	3.2Vdc	3.2Vdc	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	2.5~3.6Vdc	2.5~3.6Vdc
电池模块规格参数						
标称容量	1P14S	1P15S	1P14S	1P15S	1P15S	1P16S
标称电压	44.8Vdc	48Vdc	44.8Vdc	48Vdc	48Vdc	51.2Vdc
工作电压范围	39.2~49Vdc	42~53.5Vdc	39.2~49Vdc	42~53.5Vdc	42~52.5Vdc	44.8~56Vdc
电池簇规格参数						
配置	1P70S	1P60S	1P70S	1P120S	1P150S	1P160S
标称容量	50Ah	100Ah	100Ah	100Ah	100Ah	100Ah
标称电压	224Vdc	192Vdc	224Vdc	384Vdc	480Vdc	512Vdc
工作电压范围	196~245Vdc	168~210Vdc	196~245Vdc	336~420Vdc	420~525Vdc	448~560Vdc
重量	225Kg	300Kg	310Kg	490Kg	590Kg	610Kg

DATA CENTER ENERGY STORAGE SERIES

COSPOWERS

30-60mins



- 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	25AContinuous discharge(0.5C)		50AContinuous discharge(0.5C)			
Maximum discharge current	50AContinuous discharge(1C)		200AContinuous 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
Working 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
Working 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
Working voltage range	196~245Vdc	168~210Vdc	196~245Vdc	336~420Vdc	420~525Vdc	448~560Vdc
Weight	225Kg	300Kg	310Kg	490Kg	590Kg	610Kg



Shenzhen Coslight Power Technology Co., Ltd.

W: WWW.COSPOWERS.COM

A: No.2, Guangtian Road, No.3 Industrial Zone, Luotian Community, Yanluo Street, Baoan District, Shenzhen, Guangdong Province, P.R.C

T: +86-755-33185898

Copyright and final interpretation rights belong to Shenzhen Coslight Power Technology Co., Ltd.