

浸没式锂电池系统 CFS512120U

HOT **NEW**



- 1 高安全性：全浸没式技术，完全隔绝氧气，阻燃、防爆、防冒烟；
- 2 均温性：浸没式电芯，均温性能高；
- 3 经济性：精准控温，温差 $\leq 2^{\circ}\text{C}$ ，一致性高，超长循环寿命；
- 4 灵活性：空间节省，模块化设计支持紧凑布局，占地面积减少；
- 5 兼容性：系统兼容二/三线设计，满足不同UPS机型要求；
- 6 高效热管理，电芯全时全域浸没，高效热管理，系统效率提升3%；

产品参数

产品型号	CFS512120U
电芯材料	磷酸铁锂
标称电压	512Vdc
额定充电电压	560Vdc
标称容量	120Ah/61.44kWh
自放电率	$\leq 3\%$ (0-30°C/3个月)
标准放电电流	120A连续放电 (1C)
最大放电电流	600A连续放电 (5C)
标准充电电流	60A (0.5C)
最大充电电流	120A (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*1200*2300mm

环境

存储温度	-20~45°C
运输温度	-20~60°C
工作环境温度	0~45°C
相对湿度	5~95%
海拔	$\leq 2000\text{m}$

规格参数

项目	电芯	电池模块	电池簇
规格型号		CF512120U	
配置	单cell	2P20S	2P160S
标称容量 (1C)	60Ah	120Ah	120Ah
标称电压	3.2Vdc	64Vdc	215Vdc
工作电压范围	2.5~3.6Vdc	56~72Vdc	448~560Vdc
重量	1.71Kg	92Kg	1100Kg

单簇性能数据

时间	12分钟	15分钟	20分钟
功率	275Kw	222kW	167Kw
电流	600A	480A	360A



深圳昆宇电源科技有限公司

网址: WWW.COSPOWERS.COM

地址: 深圳市宝安区燕罗街道罗田社区第三工业区广田路2号

电话: 0755-33185898

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Short Duration Power Backup Series

COSPOWERS

CFS512120U

Immersion-Cooled Lithium Battery System



- High Safety:** Fully immersion technology completely isolates oxygen, providing protection against fire, explosion, and smoke.
- Temperature Uniformity:** Immersion battery cells offer excellent temperature uniformity.
- Cost-Effectiveness:** Precise temperature control with a temperature difference $\leq 2^{\circ}\text{C}$ ensures high consistency and ultra-long cycle life.
- Flexibility:** Space-saving, modular design supports compact layouts, reducing the required footprint.
- Compatibility:** The system is compatible with two/three-line configurations, meeting the requirements of various UPS models.
- Efficient Thermal Management:** Full-time, full-area immersion of battery cells enables efficient thermal management, increasing system efficiency by 3%.

Product parameters

Product model	CFS512120U		
Cell Material	LFP		
Nominal Voltage	512Vdc		
Rated Charging Voltage	560Vdc		
Nominal Capacity	120Ah/61.44kWh		
Self-Discharge Rate	$\leq 3\%$ (0~30°C/3 months)		
Standard Discharge Current	120A Continuous discharge(1C)		
Maximum Discharge Current	600A Continuous discharge(5C)		
Standard Charging Current	60A(0.5C)		
Maximum Charging Current	120A(1C)		
Cycle Life	3000 cycles @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*1200*2300mm		
Environment			
Storage Temperature	-20~45°C		
Transportation Temperature	-20~60°C		
Operating Ambient Temperature	0~45°C		
Relative Humidity	5~95%		
Altitude	$\leq 2000\text{m}$		
Specifications			
Item	Cell	Battery Module	Battery Rack
Model Specification		CF512120U	
Configuration	Single cell	2P20S	2P160S
Nominal Capacity (1C)	60Ah	120Ah	120Ah
Nominal Voltage	3.2Vdc	64Vdc	215Vdc
Operating Voltage Range	2.5~3.6Vdc	56~72Vdc	448~560Vdc
Weight	1.71Kg	92Kg	1100Kg
Single Rack Performance Data			
Time	12-minute	15-minute	20-minute
Power	275Kw	222kW	167Kw
Energy	600A	480A	360A



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

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