

浸没式锂电池系统
CFS80085U

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≤2℃，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		CFS80085U	
电芯材料	磷酸铁锂		
标称电压	768Vdc		
额定充电电压	850Vdc		
标称容量	85Ah/58kWh		
自放电率	≤3% (0-30°C/3 个月)		
标准放电电流	85A连续放电 (1C)		
最大放电电流	510A连续放电 (6C)		
标准充电电流	42.5A (0.5C)		
最大充电电流	85A (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)	1200*1000*2000mm		
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	≤2000m		
单簇性能数据			
时间	10分钟	15分钟	20分钟
功率	347kW	232kW	147kW
电流	510A	340A	255A



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Short Duration Power Backup Series

CFS80085U

Immersion-Cooled Lithium Battery System

NEW



- 1

High Safety: Fully immersion technology completely isolates oxygen, providing protection against fire, explosion, and smoke.
- 2

Temperature Uniformity: Immersion battery cells offer excellent temperature uniformity.
- 3

Cost-Effectiveness: Precise temperature control with a temperature difference $\leq 2^{\circ}\text{C}$ ensures high consistency and ultra-long cycle life.
- 4

Flexibility: Space-saving, modular design supports compact layouts, reducing the required footprint.
- 5

Compatibility: The system is compatible with two/three-line configurations, meeting the requirements of various UPS models.
- 6

Efficient Thermal Management: Full-time, full-area immersion of battery cells enables efficient thermal management, increasing system efficiency by 3%.

Product parameters

Product model	CFS80085U		
Cell Material	LFP		
Nominal Voltage	768Vdc		
Rated Charging Voltage	850Vdc		
Nominal Capacity	85Ah/58kWh		
Self-Discharge Rate	≤3% (at 0~30°C for 3 months)		
Standard Discharge Current	85A continuous discharge (1C)		
Maximum Discharge Current	510A continuous discharge (6C)		
Standard Charging Current	42.5A (0.5C)		
Maximum Charging Current	85A (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-charge, over-discharge, etc.		
Dimensions (W*D*H)	1200*1000*2000mm		
Environment			
Storage Temperature	-20~45°C		
Transportation Temperature	-20~60°C		
Operating Ambient Temperature	0~45°C		
Relative Humidity	5~95%		
Altitude	≤2000m		
Single Rack Performance Data			
Time	10-minute	15-minute	20-minute
Power	347kW	232kW	174kW
Energy	510A	340A	255A

