

Short Duration Power Backup Series

CFS80085U

Immersion-Cooled Lithium Battery System



- 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℃ 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℃		
Transportation Temperature	-20~60℃		
Operating Ambient Temperature	0~45℃		
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

