

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



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