



48V100Ah **LFP Battery Module**

Brief Introduction

Our 4.8kWh battery module uses extremely safe and long-lasting Lithium Iron Phosphate technology and provides unparalleled safety, reliability, and performance.

It is specially designed for residential energy storage system to maximize solar usage, lower the electricity bill, and increase energy independence.

It passes the industry's most stringent UL9540A fire-safety testing.

- Up to 98% of efficiency
- Intelligent BMS operation & Remote monitoring
- Super long cycle life(6000 cycles @ 80% DOD)
- UL1642, UL1973, IEC62619, UN38.3, UL9540A, SGIP listed (CA)
- Compatible with most inverter/charge controllers
- Proven safety and high performance
- Higher ROI
- 10-year limited warranty
- Easy installation and scalability
- Maintenance free
- Application: Off-grid, On-grid ESS, UPS & emergency backup, Telecom system, RV, Marine system.

Specifications

	48V100(3U)	48V100(5U)
● Basic Parameters		
Model	FCIFP48100A	SSIF2P15S48100C
Anode Material	LiFePO4	
Layout	15S1P	
Rated Capacity(Ah)	100(0.5C, 25℃)	
Rated Energy(kWh)	4.8kWh	
Dimensions(W×D×H)(in)	17.3*17.3*5.2	17.3*13.8*8.7
Weight	92.6lbs / 42kg	99.2lbs / 45kg
Communication	RS485, CAN	
Cycle Life	6000+(80%DOD, 25℃)	
● Electrical Characteristics		
Voltage Window(V)	40.5~54	
Charge Current(A)	50	
Max Charge Current	100	
Max Discharge Current	100	
Energy Efficiency	98%	
● Operation Environment		
Charge Temperature(℃)	0~45℃(Optimum 15~30℃)	
Discharge Temperature(℃)	-20~50℃(Optimum 5~45℃)	
Storage Temperature(℃)	-20~50℃	
Storage Humidity(RH)	5%~90%	
Working Humidity(RH)	5%~90%	
Protection Class	IP20	
● Others		
Certification	UL1642, UL1973, IEC62619, UN38.3, UL9540A, SGIP listed (CA)	
Warranty	10yrs Limited	
Scalability	Recommend Max 12 in parallel	



FNS customers save money and avoid equipment downtime when they take advantage of FNS's renowned 24/7 free project-specific consulting, after-sales support, expert advice, and troubleshooting.



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