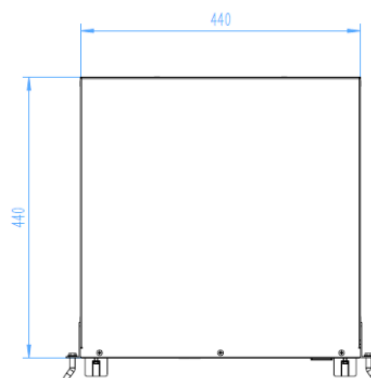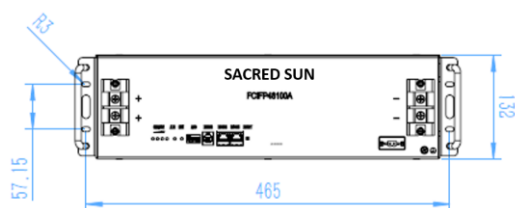# *48V100Ah 3U LFP Battery Module*

FCIFP48100A

The 4.8kWh 3U battery module uses extremely safe and long-lasting Lithium Iron Phosphate technology and provides unparallel 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.

Benefits:

➢ Every battery module has a built-in smart battery management system (BMS)

➢ Up to 98% of efficiency.

➢ Remote monitoring, update, and management.

➢ Super long cycle life --- 6000 cycles at 80% DOD.

➢ Certification: UL1642, UL1973, IEC62616, UN38.3, SGIP listed (CA)

➢ Compatible with most industry standard inverter/charge controllers.

➢ Proven safety and high performance --- deployed in field for over 10 years.

➢ Easy installation and scalability

➢ Extremely competitive price and higher return on investment

➢ Market leading 10-year limited warranty.

➢ Maintenance free modules. No ventilation, cooling or thermal regulation required.

➢ Used for off-grid, peak load shedding, TOU, zero export, and emergency backup power applications.

Drawing:

Basic Parameters	
Model	FCIFP48100A
Anode Material	LiFePO4
Nominal Voltage	48V
Layout	15S1P
Rated Capacity	100Ah（0.5C，25℃）
Rated Energy	4.8kWh
Dimensions(W×D×H)	17.3 x 17.3 x 5.2 inches
Weight	94.8Lbs/42kg
Communication	RS485, CAN
Cycle Life	6000+（80%DOD,25℃）
Electrical Characteristics	
Voltage Window	40.5～54V
Charge Current	50A (Recommend)
Max Charge Current	100A
Max Discharge Current	100A
Energy Efficiency	98%
Operation Environment	
Charge Temperature	0℃～45℃ （Optimum15℃～30℃）
Discharge Temperature	－20℃～50℃ （Optimum5℃～45℃）
Storage Temperature	－20℃～55℃
Storage Humidity（RH）	5%～90%
Working Humidity（RH）	5%～90%
Protection Class	IP20
Others	
Certification	UL1642, UL1973, IEC62133, UN38.3, UL9540A
Warranty	10yrs Limited
Scalability	Recommend Max 31 in parallel