



F - SERIES

Lithium battery

51.2V/100AH/5.12KWH



Features



Higher efficiency

- Adopts lithium iron phosphate battery cell, with cycle life of 6000+ years.
- Compatible with mainstream inverter communication protocol, strong adaptability
- Maximum 16 series parallel connection, strong scalability



Safe and reliable

- IP20 protection, 10-year warranty
- Built-in BMS and air switch, all-round protection
- Localized sales support + perfect after-sales service



User Friendly

- Plug-in wiring for easy installation
- Supports floor and wall mounting, saving installation space.
- Equipped with 4.3-inch touch color screen, more comprehensive display content

Model		F48100
Main Parameter		
Battery Chemistry		LiFePO4
Built-in Circuit Breaker		125A,1P
Capacity (Ah)		100
Scalability		Max. 16 pcs pack (82kWh) in parallel
Nominal Voltage (V)		51.2
Operating Voltage(V)		43.2~57.6
Nominal Energy (kWh)		5.12
Usable Energy (kWh) [1]		4.6
Charge/Discharge Current (A) [2]	Recommend	50
	Max.	100
	Peak(2mins,25°C)	150
Other Parameter		
Recommend Depth of Discharge		80%
Dimension (W*H*D, mm)		370*660*194
Weight Approximate(kg)		45
IP Rating of Enclosure		IP20
Operating Temperature		Charge: 0~55°C Discharge: -20°C~60°C
Storage Temperature		0~40°C
Humidity		5%~95%
Altitude		≤2000m
Cycle Life		≥6000(25°C±2°C ,0.5C/0.5C,90%DOD,70%EOL)
Installation		Wall-Mounted, Floor-Mounted
Communication Port		CAN2.0,RS485
Warranty Period [3]		10 years
Energy Throughput		10.7MWh@70%EOL
Certification		UN38.3, IEC62619, CE

[1] DC Usable Energy, test conditions: 90% DOD, 0.5C charge & discharge at 25°C. System usable energy may vary due to system configuration parameters.

[2] The current is affected by temperature and SOC.

[3] Conditions apply, refer to Vamitek Warranty Letter.