FCIFP48100A

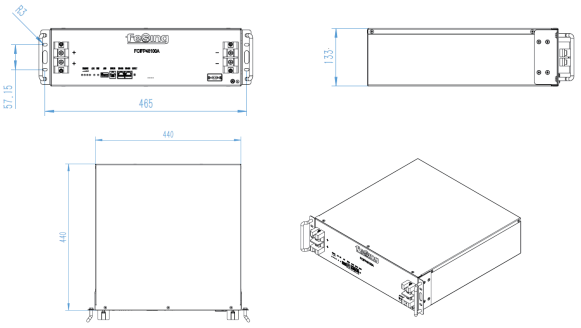
LFP Battery

FCIFP48100A battery with 4.8kWh 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 electricity bill and increase energy independence.

Benefits

- Easy installation and remote update
- Superior safety and high performance
- Super long cycle life
- Intelligent Built-in BMS
- Higher return on investment (ROI)
- Compatible with all industry standard inverter/charge controllers
- Free maintenance, no ventilation, cooling or thermal regulation required

Drawing



Standards

a. Product

- IEC 62619
- IEC 62133
- UN 38.3
- UL 1642
- UL 1973

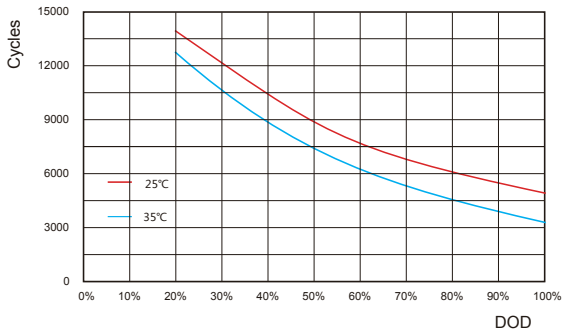
b. MS certification

- ISO 9001
- ISO 14001
- OHSAS 18001

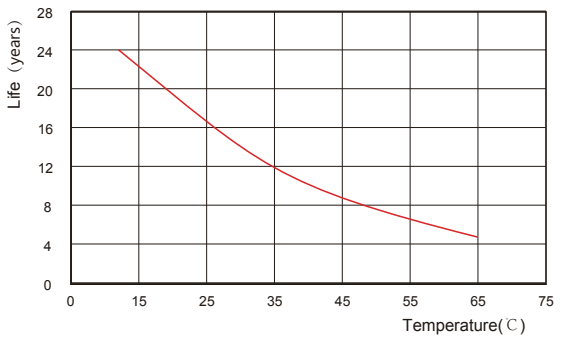
Specifications

Basic Parameters	
Module	FCIFP48100A
Anode Material	$LiFePO_4$
Nominal Voltage（V）	48
Layout	15S1P
Rated Capacity（Ah）	100（0.5C，25℃）
Rated Energy（kWh）	4.8
Dimensions(W×D×H)mm	440×440×133（3U）
Weight（kg）	43.5(About)
Communication	RS485,CAN
Cycle Life	6000+（80%DOD,25℃）
Electrical Characteristics	
Voltage Window（V）	40.5～54
Charge Current（A）	50(Recommend)
Max Charge Current（A）	100
Max Discharge Current（A）	100
Operation Environment	
Charge Temperature（℃）	0℃～50℃ （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

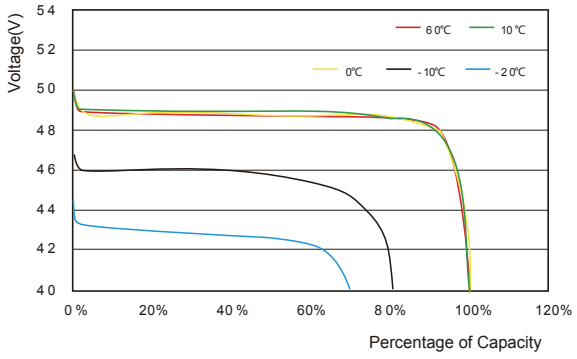
Performance Curve



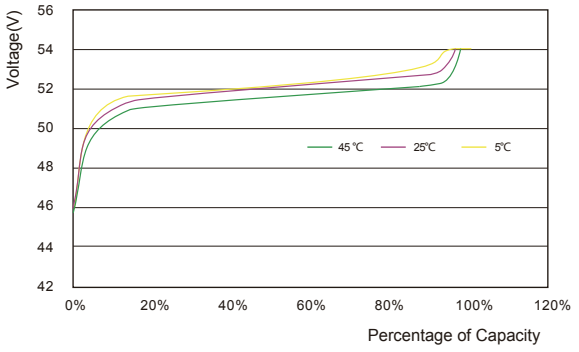
Cycle Life vs. Depth of Discharge (DOD)



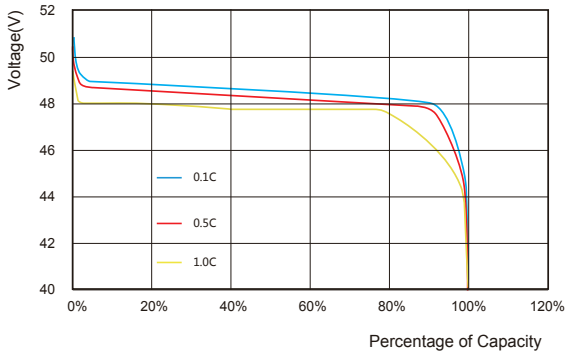
Calendar Life at Different Temperature



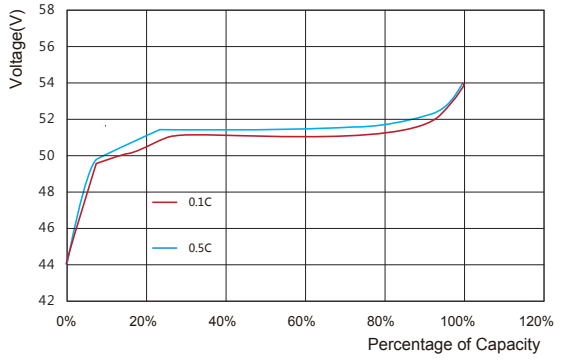
Discharge Curve at Different Temperature



Charge Curve at Different Temperature



Discharge Curve Vs. Current（25℃）



Charge Curve Vs. Current（25℃）

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With the process improvement and product upgrading, the product characteristics are subject to change without notice.