

RE3U48100

LFP Battery Module

The 4.8kWh 3U battery modules 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 electricity bill and increase energy independence.



Benefits

- Easy installation and remote update
- UL1642,UL1973 certified and UL9540A pending
- Super long cycle life
- Intelligent Built-in BMS
- Higher return on investment (ROI)
- Compatible with all industry standard inverter/charge controllers
- Maintenance free, no ventilation, cooling or thermal regulation required

Standards

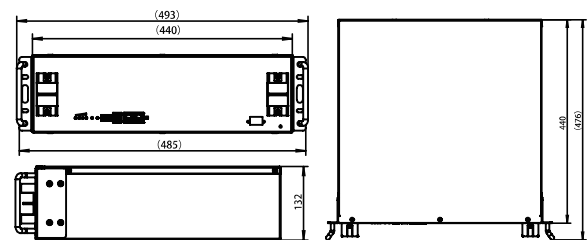
a. Product

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

b. MS certification

- ISO 9001
- ISO 14001
- OHSAS 18001

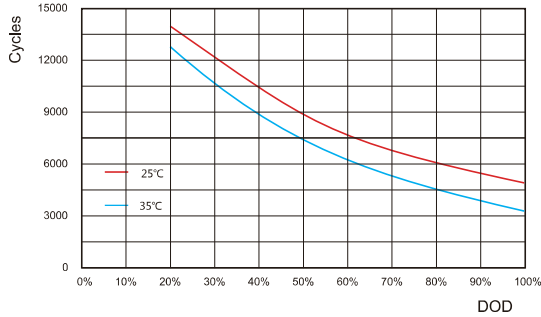
Drawing



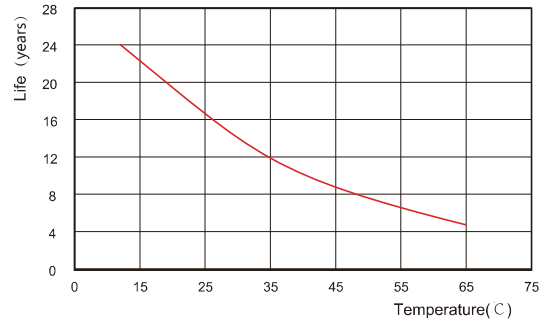
Specifications

Basic Parameters	
Module	FRE3U48100
Anode Material	LiFePO ₄
Nominal Voltage (V)	48
Layout	15S1P
Rated Capacity (Ah)	100 (0.5C, 25°C)
Rated Energy (kWh)	4.8
Dimensions(W×D×H)mm	440×440×132 (3U)
Weight (kg)	42
Communication	RS485,CAN
Cycle Life	6000+@80%DOD or 4500@100%DOD,25°C
Electrical Characteristics	
Voltage Window (V)	40.5~54
Charge Current (A)	50(Recommend)
Max Charge Current (A)	100
Max Discharge Current (A)	100
Energy Efficiency (RTE)	93%(@25°C)
Operation Environment	
Charge Temperature (°C)	0°C~50°C (Optimum15°C~30°C)
Discharge Temperature (°C)	-20°C~50°C (Optimum5°C~45°C)
Storage Temperature (°C)	-20°C~55°C
Storage Humidity (RH)	5%~90%
Working Humidity (RH)	5%~90%
Protection Class	IP20

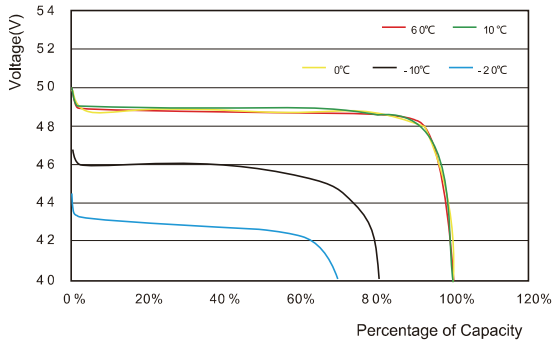
Performance Curve



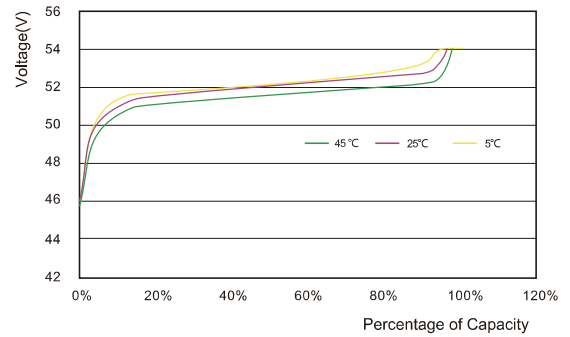
Cycle Life vs. Depth of Discharge (DOD)



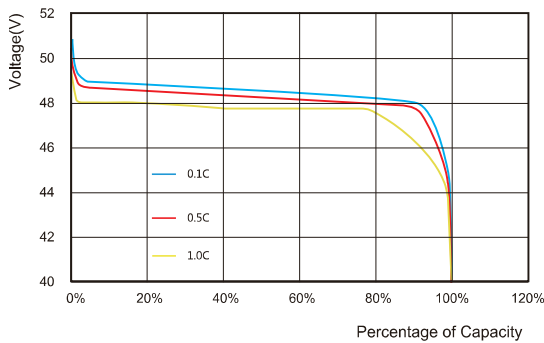
Calendar Life at Different Temperature



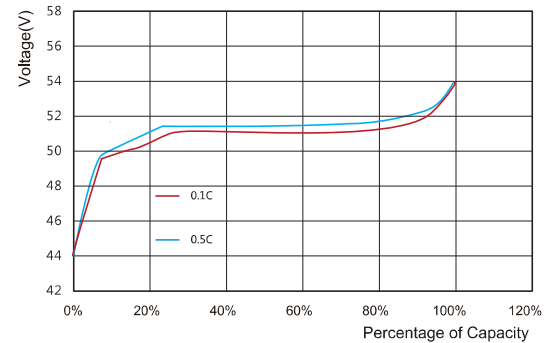
Discharge Curve at Different Temperature



Charge Curve at Different Temperature



Discharge Curve Vs. Current (25°C)



Charge Curve Vs. Current (25°C)

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