

# 48NPFC100

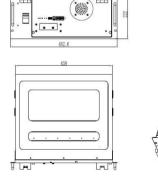


### LITHIUM IRON PHOSPHATE BATTERY

<b>Electrical</b> Specification	
Nominal Voltage	48V
Nominal Capacity	100Ah
Energy	4.8KWh
Resistance	≤25±2mΩ
Efficiency	≥90%
Current Limiter	Available
Maximum Modules in Parallel	8 (with CBMS)
Charge Specification	
Recommended Charge Current	0.3C
Maximum Charge Current	1C
Charge Current 15 to 40°C	0.3C
Recommended Charge Voltage	54±0.5V
Operating Voltage	42-56V
Temperature Specification	
Charge Temperature	0 to + 60°C
Discharge Temperature	-10 to + 60°C
Storage Temperature	0 to + 40°C
Humidity	5% to 95%
<b>Dimensional</b> Specification	
Width (W)*Depth (D)* Height (H)	(439*400*222)±2mm

H
D

<b>Mechanical</b> Specification	
Dimensions (W*D*H)	(439*400*222)±2mm
Weight (approx.)	45Kg
Terminal Type	M8
Case Material	Metal
<b>Enclosure Protection</b>	IP20
Cell Type	Prismatic
Chemistry	LFP
<b>Discharge</b> Specification	
<b>Recommended Discharge Current</b>	0.3C
Maximum Discharge Current	1C
<b>Recommended Low Voltage Disconnect</b>	42V
Discharge Current 15 to 40°C	0.3C
Operating Voltage	42-56V
<b>Compliance</b> Specification	
Certification	Yes
Shipping Classification	Yes
Front Panel Specification	
Status Indicators	SOC/ALM/RUN
Communication Ports	RS485*2,RS232*1
Reset Key	Available
On/Off Switch	Available
LED Interface	Available
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#### **Key** Specification

**High Safety Ensured by integrated Smart BMS** 

High Energy Density by Adopting LFP cells

Extendable capacity through parallel connection

Wide working Temperature range

Perfectly Fits in Telecom standard 19" cabinet

#### **Performance** Specification

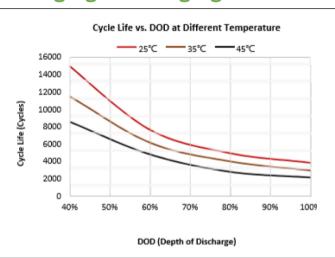
Long Cycle Life: 3000 cycles @ 80% DOD, 25°C discharge conditions

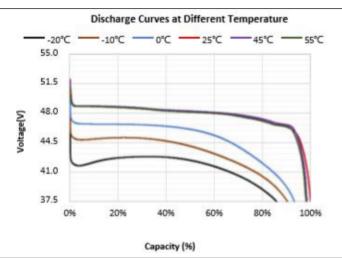
Stable structure of LFP crystal with high decompose temperature

Higher Cost Effectiveness than other Li-ion chemistries High Discharge/Charge Efficiency: More Than 90%.

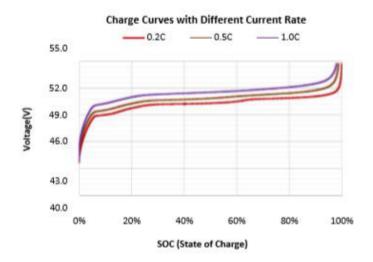
Easy handling and installation

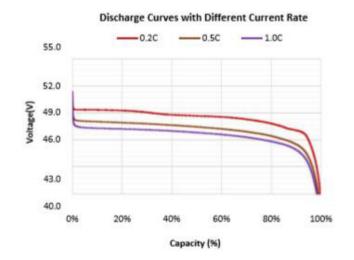
# **Charging Discharging Curves at different C-rates**





#### **Performance curves**





# **Standard compliance**







