Professional lithium battery manufacturer



Special for AGV

LiFePO₄ Battery







Scan code after-sales specialist To help you

Shandong NPNE New Energy Technology Co., Ltd.

NPNE is a professional manufacturer of lithium iron phosphate battery PACK. We focus on all aspects of production, from supplier selection, product design, to module production, to battery pack assembly, testing and so on. And ensure product traceability. NPFA series are lithium iron phosphate batteries. Suitable for AGV instead of lead acid.

Tel: 0632-8671908 Mail: lester@npnebattery.com Web: www.npnebattery.com

Features

Longer Cycle Life:

Offers up to 10 times longer cycle life and five times longer float /calendar life than lead acid battery.

Higher Power:

Delivers twice power of lead acid battery, even higher discharge rate. Also can sustain higher charge current and shorten the charge time.

Environment friendly:

LiFePO4 battery does not contain any toxic or harmful substances, and is environmentally friendly in both production and use. Now it is widely accepted by more and more people.

Lighter weight:

About 40% of the weight of a comparable lead acid battery. A drop in replacement for lead acid battery.

Support custom:

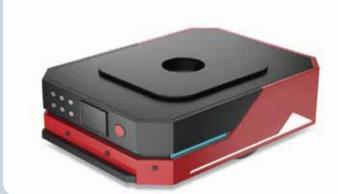
If you have other requirements, such as color, size, heating function, GPS, etc., we will provide a more professional services.

Super safety:

The olivine structure of lithium iron phosphate material is eliminated fundamentally the risk of explosion or combustion due to high impact, overcharged or short circuit situation. Besides, BMS protection ensures safe and efficient operation.





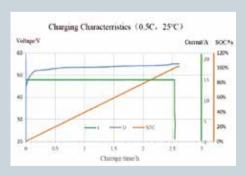




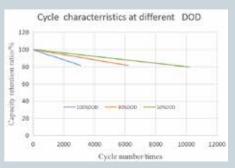
Product parameter list

Model	Voltage (V)	Capacity (Ah)	Energy (Wh)	Charge Current(A)	Max Discharge current(A)	Pulse current (<50mS)	Dimensions (mm)	Terminal
NPFA48-27	48	27	1296	15	20	90	350*140*160	Anderson plug
NPFA48-32	48	32	1536	15	20	120	420*140*200	Anderson plug

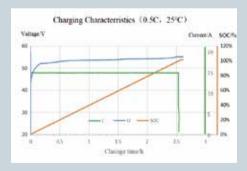
Technical characteristic curve



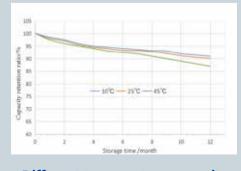
Charging characteristic 0.2C



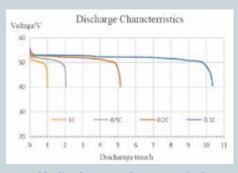
Cycle performance



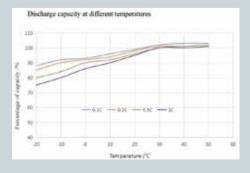
Charging characteristic 0.5C



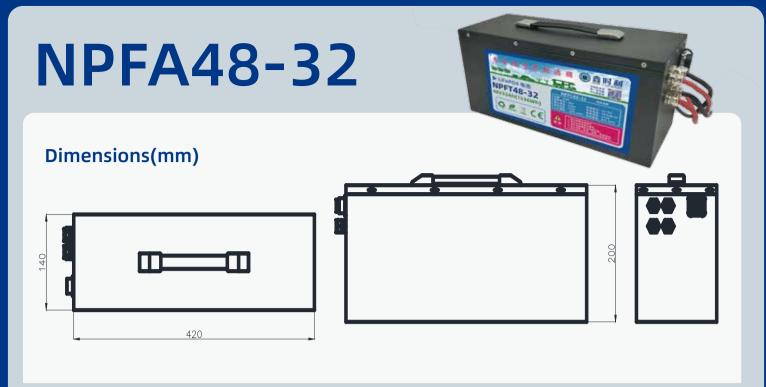
Different temperature capacity



Self-discharge characteristics



Discharge characteristics



Specification

	LiFePO ₄ Battery	Model: NPFA48	3-32	
	Nominal Voltage	48V		
	Nominal Capacity	32Ah @0.2C		
	Energy	1536Wh		
	Internal Impedance (ACR)	80mΩ		
Electrical Characteristics	Cycle Life	≥3,000@0.2C (100%DOD) ≥6,000@0.2C (80%DOD) ≥10,000@0.2C (50%DOD)		
	Monthly Self Discharge	Less than 2%		
	Protection Function	Over charge protection, Over discharge protection, Temperature protection, Short-circuit protection, Balanced function		
	Charge Voltage	54.8±0.2V		
Standard Charge	Charge Mode (CC/CV)	0.2C to 54.8V; then 54.8V charge current to 0.02C		
	Charge Current	6A		
	Max.Charge Current	15A		
C irculand	Continues Current	32A		
Standard Discharge	Max. Pulse Current	90A(≤3S)	120A(≤50mS)	
Discharge	Discharge Cut-off Voltage		37.5V	
	Charge Temperature	0°C-55°C		
Environmental	Discharge Temperature	-20°C-60°C	@60±25% Relative	
	Storage Temperature	-20°C-45°C	Humidity	
	IP Class	IP67		
	Dimension(L*W*H)	(420±3) mm* (140±2)mm* (200±2)mm		
	Weight	18.0±0.5Kg		
Mechanical	Material of case	☐ ABS plastic	☑ Metal	
	Colour	☑ Black ☐ Gray		
	Terminal	Anderson plug		

NPFA48-27 Dimensions(mm)

Specification

	LiFePO ₄ Battery	Model: NPFA48	8-27	
	Nominal Voltage	48V		
	Nominal Capacity	27Ah @0.2C		
	Energy	1296Wh		
	Internal Impedance (ACR)	100mΩ		
Electrical Characteristics	Cycle Life	≥3,000@0.2C (100%DOD) ≥6,000@0.2C (80%DOD) ≥10,000@0.2C (50%DOD)		
	Monthly Self Discharge	Less than 2%		
	Protection Function	Over charge protection, Over discharge protection, Temperature protection, Short-circuit protection, Balanced function		
	Charge Voltage	54.8±0.2V		
Standard Charge	Charge Mode (CC/CV)	0.2C to 54.8V; then 54.8V charge current to 0.02C		
	Charge Current	6A		
	Max.Charge Current	15A		
Chan dand	Continues Current	27A		
Standard Discharge	Max. Pulse Current	72A(≤3S)	90A(≤50mS)	
Discharge	Discharge Cut-off Voltage		37.5V	
	Charge Temperature	0°C-55°C	@60±25% Relative	
Environmental	Discharge Temperature	-20°C-60°C		
	Storage Temperature	-20°C-45°C	Humidity	
	IP Class		IP67	
	Dimension(L*W*H)	(350±3) mm* (140±2)mm* (160±2)mm		
	Weight	16.0±0.5Kg		
Mechanical	Material of case	☐ ABS plastic ✓ Metal		
	Colour	☑ Black ☐ Gray		
	Terminal	Anderson plug		