



12.8V LITHIUM IRON PHOSPHATE BATTERY PACK

User Instruction

(Revision History)

Ver. No.	Date	Revised Content	Reasons for Change	Reviser	Approver
A0	2024.04.08	First Edition	First Draft	Jiazhen.Jiang	

Product Description

The Li-FePO4 battery is used for energy storage in field of household, commercial, UPS and other electrical equipment. It has advantage of long cycle life, high safety software protection, strong housing, exquisite looks and easy installation, etc.

Product Specifications

Items		Condition			Specification		
Nominal Capacity		Standard charge/discharge	30.0Ah	50.0Ah	100.0Ah	150.0Ah	200.0Ah
Nominal Voltage		Average	12.8V	12.8V	12.8V	12.8V	12.8V
Internal Im	pedance	at 1KHz after50% charge	$\leq 20 \mathrm{m}\Omega$	≤20mΩ	≤18mΩ	$\leq 10 \text{m}\Omega$	≤10mΩ
Standard Charging		Constant current Constant voltage End current Cut off	15A 14.6V 1A	25A 14.6V 1A	50A 14.6V 1A	50A 29.2V 1A	100A 29.2V 1A
Charging Voltage		/	14.6V	14.6V	14.6V	14.6V	14.6V
Max. Continuous Charge Current		25±3°C	30A	50A	100A	100A	200A
Standard Discharging		Constant current End voltage Cut off	15A 10V	25A 10V	50A 10V	50A 10V	100A 10V
Max Continuous Discharge Current		25±3°C	30A	50A	100A	100A	200A
Cycle	Life	0.2C, 80% DOD, 25±3°C	6000 times				
Operating Charge		/	0°C~ 55°C				
T i	Dischar ge	/	-20°C~ 55°C				
Storage Temperature		1 month 3 month 6 month upon	-20°C~ 45°C -20°C~ 35°C 0°C~ 35°C				
Communication Function		/					

Electrical Specification

Unless there is special requirement, the test shall be done under temperature of 25 ± 2 °C and with relative humidity of $45\sim85\%$.)

Items	Test Condition					Criteria
1.1Standard Charge	The standard charge 25±3°C with initial constant voltage of 14.6V and with flow should be exclusive with an accuracy of	charge curre 14.6V, then ating curren ely using lit	/			
1.2 Standard Discharge	10V with disc	harge in accordance with the standard and then discharge to voltage 10V with discharge current of 15/25/50/50/100A.The gap time for charge and discharge is 30 minutes				$\begin{array}{l} \text{Minimum} \\ \text{Capacity} \\ \geq \\ 30.0 \\ 50.0 \\ 100.0 \\ 150.0 \\ 200.0 \text{Ah} \end{array}$
Discharge Character	Discharge currentDischarge Temperature $0.5C$ $-10^{\circ}C$ $0^{\circ}C$ $20^{\circ}C$ $40^{\circ}C$ $\geq 50^{\circ}$ $\geq 60^{\circ}$ $\geq 95^{\circ}$ $\geq 95^{\circ}$ Batteries shall be charged according to 1.1 and discharged in accordance with the above mentioned temperature. The discharge capacity shall meet the standard. Batteries shall be stored for 4 hours at the test temperature					At -10°C: Discharge Capacity≥50% At 0°C: Discharge capacity≥60% At 25°C Discharge capacity≥95% At 40°C Discharge capacity≥95%

Bluetooth connection

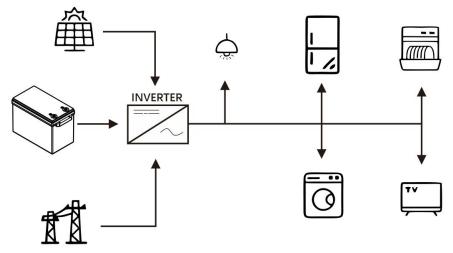


If you need to use this product to connect to an app, please scan the QR code on the packaging first to download and install the corresponding app. Then open the app and follow the prompts to connect via Bluetooth. If you encounter any problems, please contact customer service for assistance. (30A and 5 0A do not come with Bluetooth)

BMS Parameter

NO.	Item		12.8V30Ah	12.8V50A h	12.8V100A h	12.8V150 Ah	12.8V200 Ah		
1	Power Consumption	Low power consumption mode	≤50µA	≤50µA	≤100µA	≤100µA	≤200µA		
2	Over charge	Over charge detection voltage	3.75V						
2	Protection	Over charge release voltage	3.38V						
3	Over discharge	Over discharge detection voltage	2.2V						
5	protection	Over discharge release voltage	2.7V						
	4 Over current protection	Charging over current detection current 1 detection time	35A (1S)	55A (1S)	110A (1S)	110A (1S)	210A (1S)		
4		Discharging over current detection current 1 detection time	35A (1S)	55A (1S)	110A (1S)	110A (1S)	210A (1S)		
		Discharging over current detection current 2 detection time	≥50A(100 ms)	≥80A(1 00ms)	≥330A(1 00ms)	≥330A(1 00ms)	≥760A(1 00ms)		
5	Temp. Protection	Detection temperature	65±2°C						

Wiring diagram



Transportation

During transportation, please keep the battery from acutely vibration, impacting, over-exposure to the sun and drenching.

Storage

1.Storage environment requirement: under temperature of $25\pm2^{\circ}C$ and relative humidity of $45\sim85\%$.

2. This power box must be charged every six months, and a complete charging and discharging work must be down in every nine months.

Caution

*The installation and debugging should be operated by technical personnel.

*Please do not stick your hands or other objects deep into the interior of the product.

*Please do not open the product without a technical personnel.

*Please do not mechanically damage the battery module of the energy storage cabinet (perforation, deformation, peeling, etc.).

*Please use dry powder extinguisher as extinguishing agent.

*Please do not let the storage cabinet battery module contact abnormal metals or conductors.

*Please do not use the product after a short circuit.

*Please do not expose the energy storage cabinet to flammable or hazardous chemicals or vapors.

Maintenance Record

Dear user.thank you for selecting our product,Please fill in and keep the warranty card for better services.

Attn:	Product No.:		
Tel:	E-mail:		

Purchase Date:

Address:

Maintenance Record						
Date of repair	Content	Maintenance Personnel	Note			





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