LiFePO4 Battery Specification

Model: PH126



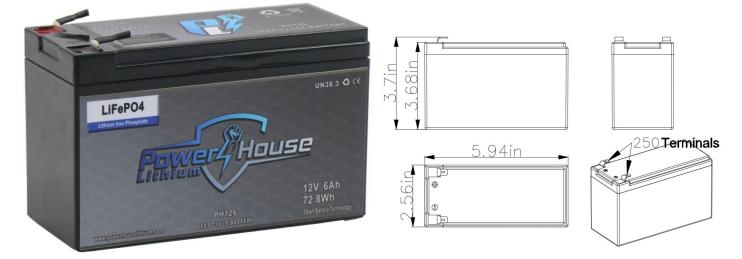
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1. Normal performance:

NO.	Item	General Parameter	
1	Rated capacity	6Ah	
2	Standard voltage	12.8V (4S)	
3	Standard Charge voltage	14.6V	
4	Charging method	CC-CV	
5	Charge current	Normal	3A
		Мах	6A
6	Cut-off voltage	10V	
7	Continuous discharge current	9A	
8	Peak discharge current	15A@5s	
9	Net weight	About 1.55 lbs	
10	Impedance (Max, at 1000Hz.)	≤ 30 mΩ	
11	Charge method	charge	32°~140°F
		discharge	-4°~140°F
40	Storage environment	temperature	50°~113°F
12		humidity	≤ 75%RH
	Cycle life	1C@DOD100%	≥2500 cycles
13		0.2C@DOD100%	≥4000 cycles
14	Self-discharge rate	≤3%/Month	
	Battery dimension	L=5.94±0.08inches	
15		W=2.56±0.08inches	
		H=3.7±0.08inches	
16	Series parallel application	Supports up to 4 groups in series or 2 groups in parallel	

2. Battery appearance structure and size:



3. Performance & Test Condition:

No.	Project	Standard		Testing method	
1	Rated capacity	6Ah		After standard charge, discharge @0.5C current to the end of discharge voltage. cycle three times. One cycle capacity will show standard, that's to say it is passed Inspection and testing. (This is the same as below);	
2	Charging keep ability in normal temperature	Rest capacity ≥ standard capacity *97%		After standard charging, store at 77°F±41°F for 1 month, and then discharge capacity @0.2C current to the end of discharge voltage. Then measure the capacity of cell.	
3	Cycle life	Capacity≥ Standard capacity *80%		After standard charge, discharge @0.2C current to the end of discharge voltage. rest for 1h, cycles for 4000 times.	
4	Internal Impedance	≤30mΩ		@50% SOC @1kHz AC internal resistance test instrument.	
5	Discharge temperature characteristic @0.2C	-4°F(6h)	≥70%		
		32°F(6h)	≥90%	Capacity @specified temperature/Capacity @ 77°F	
		77°F(4h)	≥100%		
		131°F(4h)	≥97%		

4. Storage and Transportation

1. Due to the nature of lithium ion, a proper environment for transportation of LiFePO4 battery packs need to be created to protect the battery. Heavy duty box with padding is required. This eliminates damage to the case in shipping, that could cause water intrusion later.

2. During transportation, 50% SOC must be kept to ensure safety, liquid in the battery or immersion of battery in liquid never should occur.

3. Battery should be kept at $32^{\circ}F^{-113^{\circ}F}$ in storage where it's dry, clean and well-ventilated.

4. During loading of battery, refrain from dropping the battery.

5. Warnings and Tips

Warning!

- Never throw the battery into water, keep it under dry, shady and cool conditions when not in use.
- Never reverse the positive and negative.
- Never connect the positive and negative of a battery with a conductive material.
- Never ship or store the battery together with other conductive materials
- Never knock, throw or trample the battery.
- Also make sure to check straps regularly and secure the battery in proper fitting trays.

NOTICE!

- Never use Battery over 113°F. Otherwise, it will cause excessive battery heat, this can cause fire, lose some function, or reduce the life of the battery. The proposed temperature for long-term storage is 32°-113°F.
- Never throw the battery into fire, explosion and environmental pollution will occur; scrap batteries should be handled by a recycle station.
- Never use the battery under strong static and strong magnetic field, otherwise it will destroy the BMS protecting device.
- If the battery emits a peculiar smell, heating, distortion or appears unconventionality during use, storage or charging process, please remove it from use and stop charging immediately.
- Please use only approved LiFePO4 charger when charging.
- Check the voltage of the battery and relevant connectors before using the battery. Do not put into operation unless levels are within specification.
- Prior to charging, fully check the battery condition and make sure it is secure in battery tray.
- The battery should be stored in half SOC. Fully charge the battery once every 6 months
- Clean the dirty electrode, if any, with a clean dry cloth, or poor contact or operation failure may occur.
- If the battery pack is used in series or in parallel, it must be ensured that the battery pack has the same charge and the pressure difference is within 50mV.

6. Registration

All batteries must be registered within 90 days of purchase failure to do so will result in battery prorated from battery production date. To register the battery, please go to:

https://powerhouselithium.com/pages/registration

7. Warranty

Starting batteries:

5-year warranty, first 3 years free replacement, unless it falls into the exclusions listed on the website. After year 3 the remaining warranty will be prorated by each month used.

Deep Cycles:

- 15 years total
- Repair or replace free any time inside of 60 months or 1,000 battery cycles (whichever comes first) from purchase date.
- All warrantied items will be subject to the shipping cost to and from PowerHouse Lithium.
- Warrantied replacement cost is based on current MSRP on all batteries over 1000 cycles or the 5 year period.

Replacement cost of batteries over the 5 year or 1000 cycle counts goes as followed:

1. From Year 5 thru 8 - repair: cost of parts plus \$100 (repair not to exceed 50% of MSRP), or replacement cost will be at a 50% discount off MSRP*. Cycle count not to exceed 1500 cycles

2. From year 8 thru 15 replacement cost will be at a 30% discount off current MSRP*

All shipping charges to and from Powerhouse Lithium are the responsibility of the consumer.

** Note Life of a LiFePO4 battery will be reduced by not using the proper approved chargers.

If warranty claim is necessary, please go to:

https://powerhouselithium.com/pages/battery-warranty-claim

to start this process