



# Guangzhou Yixiu Lvdian energy technology Co.,ltd

**YXLN**  
China

No.3A06, Floor 4, No.1498, Fanghua Road, Renhe Village, Renhe Town, Baiyun district Guangzhou,

Tel: 86-020-86213109 Phone : +00 86 13068893999 Web: [www.eshowcharger.com](http://www.eshowcharger.com)

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## **Specification of Battery Charger**

**Model No.: YX-120W**

**(Aluminium Case)**

**14.4V /6A Lifepo4 BATTERY CHARGER**



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## 1. General

12V Battery Charger can work normally under 14.4Vdc/6A 4s lifepo4 batteries

## 1. Electrical Specification

### 2.1 Main product specification



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No.	Model	YX-120W	Remark
1	Battery	<input type="checkbox"/> Li-ion <input checked="" type="checkbox"/> LiFePO4	4s lifepo4
2	Max output voltage	14.4V ± 0.2Vdc	
3	Output current	6A ± 3% A	
4	Actual output power	86.4W	
5	Input voltage	200-240vac	As customers' requirement 220vac / 100vac
6.	AC input voltage frequency	50/60 Hz	

## 2.2 Output characteristic or charge stages

No.	Item	Technical specification	Remark
1	CC(constant current)	14.4Vdc	
2	CV(constant voltage)	6A	
3	Floating	NO	
4	Transition Current	0.3A	
5	Power efficiency	≥88%	Vin=110Vac/220Vac, rated load

## 2.4 Protection characteristics

No.	Item	Technical specification	Remark
1	Over voltage protection	Yes	
2	Over current protection	Yes	At CC mode
3	Short circuit protection	Short circuit protection should be automatically recovery after remove the condition.	
4	Reverse polarity protection	When output wires are reversely connected to the battery the charger will not operate and will work normally when DC	



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	wires are correctly connected.	
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## 2.5 Charging indicator

No.	Item	Status	Remark
1	Power on	LED1: Red	
2	Charging	LED2: Red	
3	Fully charged	LED2: Green	
4	Charging Voltage Display	No	
5	Charging Current Display	No	

## 3.Environmental condition

No.	Item	Technical specification	Remark
1	Operation temperature	-15~+45°C	
2	Humidity	5~95%	
3	Storage temperature	-40~+70°C	
4	Altitude	0~3000m	
5	Cooling	Cooling fans	

## 4.Safety

No.	Item	Standard (or test condition)	Remark
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1	Electric strength test	Input-output	1500Vac/10mA/1min	No breakdown
2	Isolation resistance	Input-ground	$\geq 10\text{Mohm}@500\text{Vdc}$	
		Output-ground	$\geq 10\text{Mohm}@500\text{Vdc}$	
3	Leakage current		$< 5.0\text{mA}$	Input voltage =264Vac

## 5. Environmental testing requirements

No.	Item	Technical specification	Remark
1	High temperature ambient operating	+40°C	Features OK
2	Low temperature ambient operating	-15°C	Features OK
3	High temperature storage	+70°C	Work normally after recovery under normal temperature for 2 hours
4	Low temperature storage	-40°C	Work normally after recovery under normal temperature for 2 hours

## 6. Mechanical characteristic

No.	Item	Technical specification	Size	Remark
1	Shell material	Aluminum	L*W*H: 135*90*50mm	
2	Input plug	(as customers' requirement )	AC cable 1.0 meter	
3	Output plug	(as customers' requirement )	DC cable 1.0 meter	
4	Net Weight	1.0KG	/	

## 7. Reliability requirements



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No.	Item	Technical specification	Remark
1	MTBF	MTBF no less than 20000 hours (25 degrees C, Full load and rated voltage input)	
2	Burn-in and Life test	At ambient temperature 25 °C aging in two minutes, shell surface temperature $\leq 55$ °C.	

## 8. Charging Curve

