



Guangzhou Yixiu Lvodian energy technology Co.,ltd

No.3A06, Floor 4, No.1498, Fanghua Road, Renhe Village, Renhe Town, Baiyun District, Guangzhou, China
Tel: 86-020-86213109 Phone : +00 86 13068893999 Web: www.eshowcharger.com

Specification of Battery Charger

Model : YX-900W

(All Aluminium case)

14.4V 30A Lifepo4 BATTERY CHARGER





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1. General

Battery Charger YX-900W 210*120*70mm can work normally under 14.4Vdc /30A (4S lifepo4 batteries)

2. Electrical characteristics

2.1 Input characteristic

No.	Model	YX-900W	备注 Remark
1	Battery	<input type="checkbox"/> Li-ion <input checked="" type="checkbox"/> Lifepo4	
2	Max output voltage	14.4V ± 0.2Vdc	4S lifepo4 Batteries
3	Output current	30 A ±0.3 A	
4	Actual output power	432W	
5	Input voltage	200-240 Vac	As customers' requirement
6.	AC input voltage frequency	50/60 Hz	

2.2 Output characteristic or charge stages

No.	Item	Technical specification	Remark
1	CC(constant current)	30A	
2	CV(constant voltage)	14.4Vdc	
3	Float Charging	No	
4	Transition Current	1.5A	usually 5%CC , turn green lights
5	Power efficiency	≥80%	Input Voltage =230Vac, rated load



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2.3 Protection characteristics

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

2.4 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	

2. 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	



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3. Safety

No.	Item		Standard (or test condition)	Remark
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

4. 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

5. Mechanical characteristic:

Shell material: Aluminum

Outline dimension: L*W*H=210×120×70mm

Input socket: as customers' requirement

Output plug : as customers' requirement

AC wires: 1.5m length

DC wire: 1.5m length

Net Weight: 2.2 Kg



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6. Reliability requirements

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 ≤ 55 °C.	

7. Charging Curve

