



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 No.: YX-400W

(Aluminium Case)

14.4V /20A Lifepo4 BATTERY CHARGER





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1. General

12V Battery Charger can work normally under 14.4Vdc / 20A 4s lifepo4 batteries

1. Electrical Specification

2.1 Main product specification

No.	Model	YX-400W	Remark
1	Battery	<input type="checkbox"/> Li-ion <input checked="" type="checkbox"/> LiFePO4	4S lifepo4 batteries
2	Max output voltage	14.4V ± 0.2Vdc	
3	Output current	20 ± 5% A	
4	Actual output power	288W	
5	Input voltage	200-240 Vac	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)	20A	
2	CV(constant voltage)	14.6Vdc	
3	Floating	NO	
4	Transition Current	1A	
5	Power efficiency	≥88%	Vin=110Vac/220Vac, rated load



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2.4 Protection characteristics

No.	Item	Technical specification	Remark
1	Over voltage protection	Yes	
2	Over current protection	Yes	At CC mode
3	Over temperature	Yes	
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.	

2.5 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	-10~+45°C	
2	Humidity	5~95%	
3	Storage temperature	-40~+70°C	
4	Altitude	0~3000m	
5	Cooling	Cooling fans	



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4.Safety

No.	Item		Standard (or test condition)	Remark
1	Electric strength test	Input-output	1500Vac/10mA/1min	No breakdown
2	Isolation resistance	Input-ground	≥10Mohm@500Vdc	
		Output-ground	≥10Mohm@500Vdc	
3	Leakage current		<5.0mA	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: 170*90*60mm	
2	Input plug	(as customers' requirement)	AC cable 1.5meter	
3	Output plug	(as customers' requirement)	DC cable 1.5meter	
4	Net Weight	1.3KG	/	



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7. 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.	

8. Charging Curve

