XinYuMing Electronics Co., Ltd.

SPECIFICATION

Product picture: (XYM600W - QA600A)



R&D	Engineer	Confirm	REV.
			1.0

SPECIFICATION	Confirm	Approve	REV.
SPECIFICATION			1.0

TEL: +86-755-27828117 FAX: +86-75527950706 http://www.xympower.com

1. General

The series XYM600W (QA600A),199×123×77mm aluminum shell charger with reverse polarity protection function.

2. Main product specification

	!号	□XYM600W -12V25A	✓XYM600W -24V15A	✓XYM600W -24V20A	✓XYM600W -36V12A	✓XYM600W -48V10A	□XYM600W -60V08A
Mo	odel	12 12311	-24 V I JA	-24 V 20A	-30 V 12A	-46 V 10A	00 7 007 1
		$14.7V \pm 0.2$	$29.4V \pm 0.2$	$29.4V \pm 0.2$	$44.1V \pm 0.2$	$59.5V \pm 0.2$	$ _{73.5V\pm0.2} $
Max	Lead-	11.7 4 = 0.2	25.17 = 0.2	25.17 = 0.2	11.17 = 0.2	37.3 1 = 0.2	75.5 1 = 0.2
output	Acid						
voltage		$16.8V \pm 0.2$	29.4V+0.2	29.4V+0.2	54.6V+0.2	54.6V+0.2	84V±0.2
	Li-MnO2	10.6 V ± 0.2	27.4 V ± 0.2	27.4 V <u>1</u> 0.2	34.0 V ± 0.2	34.0 V ± 0.2	04 1 10.2
	■ LiFePO4	14.6V±0.2	29.2V±0.2	29.2V±0.2	43.8V±0.2	58.4V±0.2	73.0V±0.2
Output	current	25A±5%	15A±5%	20A±5%	12A±5%	10A±5%	6A±5%
Battery Sp	pecifications	4 串	8 串	8 串	12串	16 串	20 串
Max. output power							
Input voltage			□90-132	Vac ■1	80-260Vac	□90-	260Vac

3. Environmental condition

No.	Item	Technical specification	Remark
1	Humidity	5~95%	With package
2	Altitude	≤3000m	Work normally

4. Electrical characteristics

4.1 Input characteristic

No.	Item	Technical specification	Remark
1	Rated input voltage	□110Vac ■220Vac	
2	Input voltage range	□90-132Vac ■180-260Vac □90-260Vac	
3	AC input voltage frequency	50∼60 Hz	

4.2 Output characteristic or charge stages

No.]	tem		Те	chnical s	pecificat	ion		Remark
1	Nomin	al voltage	□12V	☑ 24V	⊿ 36V	⊿ 48V	□60V	□72V	
		□Ni-MH	15V	30V	45V	60V	75V	90V	
	(Vout)	□Li-MnO2	16.8V	29.4V	42V	54.6V	67.2V	88.2V	
2		■ LiFePO4	14.6V	29.2V	43.8V	58.4V	73.0V	87.6V	
			≤Vout	≤Vout	≤Vout	≤Vout	≤Vout	≤Vout	
	(constant current)		20A	20A	6A	10A	4A	3A	
3	(aanste	nt voltago)	Vout,	Vout,	Vout,	Vout,	Vout,	Vout,	
3	(consta	ant voltage)	20A ↓	20A ↓	12A ↓	10A ↓	8A ↓	6A ↓	
4		<i>a</i> .	Vout,	Vout,	Vout,	Vout,	Vout,	Vout,	10%CC
4	Transiti	on Current	1A→0	0.6A→0	0.6A→0	0.5A→0	0.4A→0	0.3A→0	1076CC
5	Power	efficiency	≥85%	≥88%	≥88%	≥88%	≥88%	≥88%	enter electric Pressure=220Vac, Ratedload Vin=220Vac,rated load

4.3 Protection characteristics

No.	Item	Technical specification	Remark
1	Software over voltage protection	The charger output voltage does not exceed set the maximum charging voltage of the battery.	
2	Thermal protection	fan	
3	Current limiting protection	The charger output current does not exceed a set battery charge current.	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.	

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6	Precharge	When the positive and negative poles of the charger are successfully connected to the copper pole of the charging pile, the precharge current is 7a and the precharge voltage is 5 Start to enter 10A constant current charging after separation	
7	0V rechargeable	Start charging when the charger receives a voltage above 5V from the equipment	
8	No load no output	Please plug in the charger with 220V AC. If the Positive and Negative poles are correctly connected, the charger will start charging within 10 seconds. If there any unusual circumstance, the charger will stop working.	
9	delayed	After the positive and negative poles of the charger and the positive and negative poles of the equipment are successfully connected, the charging is started after a delay of 2~3 seconds	

4.4 Charging indicator

No.	Item	Status	Remark
1	Power on	LED (RED)OR(GREEN)flash	
2	Charging	LED (RED)flash	
3	Fully charged	LED(GREEN)on always	
4	Charging Voltage Display	NO	
5	Charging Current Display	NO	

5. Safety & EMC

No.	Item Standard (or test condition)		Standard (or test condition)	Remark
1	Electric strength test	Input-output	1500Vac/2s ≤5mA	No breakdown
2	Input-ground Isolation		≥300M \(\Omega \) @220Vac	
2	resistance	Output-ground	≥300M \(\Omega \) @500Vdc	
3	Leakage current		<3.5mA	
4	Safety		■ CE ■ RoHs ■ GS □ UL □ CCC □ SAA □ PSE □ KC	
5	EMC		TDB	
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		EN55014-2:1997+A1:2001+A2:2008	
6	Low voltage test LVD	EN60335-1:2002+EN60335-2-29:2002	

Remark: Discrimination A- Function OK under technical requirement range;

Discrimination R- Physical damage or failure of equipment are not allowed, but damage of protection device (fuse) caused by interference signal of outside is allowed, and the whole equipment can work normally after replacement of protection device and reset of running parameter

6. Environmental testing requirements

No.	Item	Technical specification	Remark
1	High environmental temperature ambient operating	+40°C	Features OK
2	Low environmental temperature ambient operating	-10°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	Random vibration	20Hz to 500Hz Acceleration 0.49	
6	Repetitive shock	10Hz to 60Hz Amplitude 0.38	
7	Thermal shock	-35°C to 75°C, < 3min transition, 2.5hours dwell, 200cycle	
8	Drop test	BS EN60068-2-32:1993 TEST ED: free fall appendix B	

7. Mechanical characteristic:

Shell material: Aluminum

Outline dimension:

L*W*H=199*122.5*77mm Input socket: meets IEC standard

AC wires: 1.2m length DC wire: 1.2m length Net Weight: 1.9Kg MODEL NO: 9QA.010024

8. Package, transportation & storage

8.1 Package:

There is product name, model, name of manufacturer, safety approval, serial number, User Manual and packing list in the package box.

8.2 Transportation:

Suit for transportation by truck, the products should be Placed in cool dry place, and loaded and unloaded carefully.

8.3 Storage:

Products should be stored in package box when it is not used. And Warehouse extreme temperatures should be $-40 \sim 70 \, ^{\circ}\mathrm{C}$, the normal temperature $-20 \sim 50 \, ^{\circ}\mathrm{C}$, and relative humidity is $5 \sim 95\%$. In the warehouse, there should not be harmful gas, inflammable, explosive products, and corrosive chemical products, and strong mechanical vibration, shock and strong magnetic field affection. The package box should be above ground at least 20cm height, and 50cm away from wall, thermal source, and vent. Under this requirement, product has 2 years of storage period, and should be rechecked when over 2 years.

9. Reliability requirements

MTBF (standard, environmental temperature, load requirement) \geq 50K hours; testing condition: 25°C,full load, testing proved value.

10. Certificates CE, RoHS

11. Product Dimension

