Specification

Product picture:(XYM600-29.2V20A)



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	department	
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Product description

The charger adopts MCU three-stage intelligent charging technology, which can accurately track and detect the charging process of lithium battery, make it always in the best charging state, and greatly extend the service life of lithium battery.

The charger has wide input voltage range, multiple protection functions and high reliability. The control circuit adopts advanced high-frequency transformer half bridge switching power supply control technology, and reasonable structure and heat dissipation design, which makes the whole machine high efficiency, small volume, light weight, and greatly improves the portability of the charger

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2. Main product specifications

Maximum output	Input voltage	Output Voltage	The output current	
600W	180-245Vac	29.2 Vdc	20A	

3. Work Conditions:

	project	The technical requirements	unit	Remark
3. 1	Operating temperature	-10∼+40	$^{\circ}$ C	
3. 2	Storage temperature	-40~+75	$^{\circ}$ C	
3. 3	Relative humidity	5%~95%	/	No condensation
3. 4	Atmospheric pressure	70~106	Pa	
3. 5	The altitude	≤2000	m	
3.6	The cooling way	External built-in ball fan for heat dissipation	/	

4. Electrical characteristics

The input features					
	project	The technical requirements	unit	Remark	
4. 1	Rated input voltage	180-245	Vac	Input voltage with	
4.2	Input voltage range	180-245	Vac	manual switch	
4.3	Ac input voltage	47~63	Hz	switching 110V-220V	

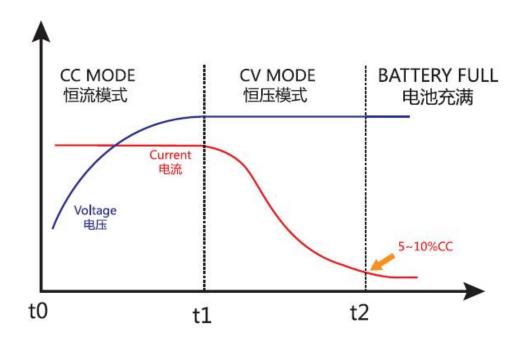
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	frequency			
4.4	Input impulse current	≤100	A	
4.5	Maximum input current	≤9.0	A	
4.6	PFC	NC	/	

Output characteristic					
project	The technical requirements	unit			
Charging voltage (CV)	29.2V±0.2V	Vdc			
Output constant current (CC)	20.0±0.5 A				
stabilized voltage precision	±0.2V	/			
efficiency	≥91% /		Vin=220Vac, Full load		
Protection Features					
Quick Details	The technical requireme	Remark			
Output overvoltage protection	29.2V ± 3%	Lock no output			
Output current limiting protection	20.0±0.5A	@CC MODE			
Output short circuit protection	Automatic output recovery after short				
Overheating protection	When the internal temperature of the reaches the over-temperature protection charger will automatically stop charge.				
Battery breaker protection	When the battery is broken, the batter full to 100%, the charger timing sho				
Certificates	CE, RoHS				

Charging curve

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LED indicator status and digital tube display status

LED Indicator Status: Charger Status

LED2 red LED1 off: plug in the mains power without the battery

LED2 red light LED1 red light: plug in the mains power connect the battery

LED2 red light LED1 red light: normal charging fan running

LED2 Green LED1 Off: Charging completed Fan stopped

Note: the charger software automatically adjusts the charging current according to the battery voltage

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Safety and EMC characteristics

	project		Standard (or test conditions)	Remark
	The	input-output	1500Vac/10mA/1min	
5. 1	5.1 electric strength	Input - earth	1500Vac/10mA/1min	No flashover, no breakdown
		Input - earth	500Vdc/10mA/1min	
		input-output	≥10MΩ@500Vdc	
5. 2	Insulation resistance	Input - earth	≥10MΩ@500Vdc	
	Tesistance	Input - earth	≥10MΩ@500Vdc	
5. 3	Leakage current		<3.5mA	Vin=264Vac, 60Hz

6. Environmental test requirements

	project	The technical requirements	Remark
6. 1	High temperature work	+40°C	Normal performance after 24 hours of operation
6. 2	Work in low temperature	-10℃	Normal performance after 24 hours of operation
6.3	High temperature storage	+75℃	Normal temperature restored two hours, normal work
6. 4	Low temperature storage	−20°C	Normal temperature restored two hours, normal work
6. 5	vibration	5-9hz, with an amplitude of 3.5mm; 9-200hz, acceleration 10m/s2; 3 axial, frequency sweeping vibration 5 times in each direction (about 3 50 minutes);	(1) components(2) appearance(3) indicators
6. 6	impact	Pulse contact time 6mS; Acceleration 250m/s2; Six faces, 500 collisions in each direction;	(1) components(2) appearance(3) indicators

7. Definition of mechanical properties and connectors

Shell material: aluminum alloy

Shell size: length width height =L217 *W130 *H73 (MM)

Input power cord: 1.2m
Output line: 1.1m
Weight: 1.9 kg

8. Packaging, transportation and storage

8.1 the packing

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The packing box shall contain the product name, model number, manufacturer's logo, inspection certificate issued by the quality department of the manufacturer, date of manufacture, etc.; The packing case contains a list of accessories.

8.2 transportation

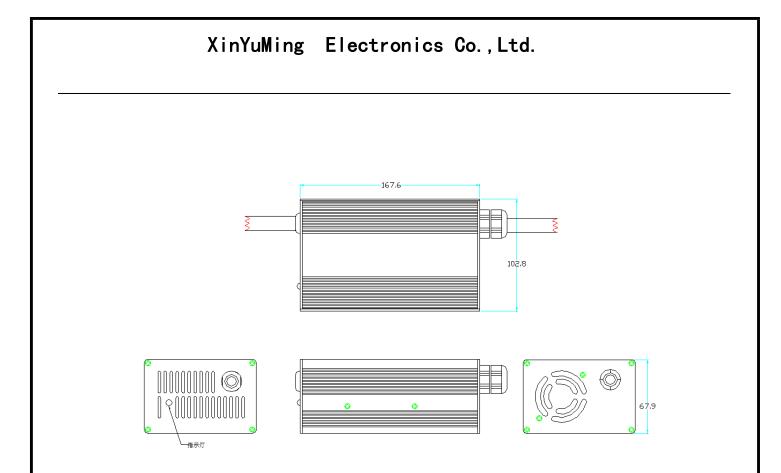
Suitable for vehicle, ship and plane transportation, with awning, sun protection and civilized loading and unloading.

8.3 the storage

Product should be stored in the packing box when not used, the warehouse environment temperature of $40 \,^{\circ}\mathrm{C}^{\circ} + 70 \,^{\circ}\mathrm{C}$, relative humidity is $5\% \,^{\circ}$ 95%, warehouse there is no harmful gas, flammable, explosive and corrosive chemicals, and there is no strong mechanical vibration, impact and strong magnetic field effect, packing should be at least 20 cm high from the ground, walls, heat sources, air inlet window or distance at least 50 cm, under the condition of these provisions, the storage period is two years commonly, more than 2 years should be tested again.

9. Reliability requirements
MTBF ≥ 30khour (25 °C, full load)
Service life ≥ 3 years

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