1. Overview

With CPU control and PWM technology, UY series charger has the advantages like high efficiency, good stability, low-carbon and energy-saving. Three-section charging mode ---- Controlling the charging current and voltage automatically and precisely, both ensure that battery is charged fully, and not over charged. Your battery life will be protected.

2. Unpacking Inspection

Open the package case, check the items shown on Table 1 carefully to check any missing or damaged part.

Table 1. Unpacking Inspection

Item	Description	Qty
1	Charger	1
2	Operating manual	1
3	AC wire	1
4	Output Connector	1

3. Charger Model & Parameter

15.1~20.0A

3.6 Light turn green

⊚5-10%CC

3.1	Model se	ries			
	⊚Umini	⊚120W	⊚180W	⊚240V	V ⊚360W
	⊚600W	⊚900W	⊚1200V	V ⊚1500)W ⊚
3.2	Rated inp	ut voltage			
	⊚90-130\	/ @	200-240V	⊚10	00 / 240V
3.3	Constant	voltage			
	⊚12.6V	⊚14.6V	⊚16.8V	●29.2V	⊚29.4V
	⊚42.0V	⊚43.8V	⊚50.4V	⊚58.4V	⊚58.8V
	⊚67.2V	⊚71.4V	⊚84.0V	⊚87.6V	©
3.4	Floating charge voltage (For lead-acid battery)				
	©				
3.5	Constant	current			
	⊚0 1~5 C)A @	5 1∼10 0A	⊚10 1	\sim 15 0A

©20.1~25.0A

©20-30%CC

©25.1~30.0A

4. Operating Instruction

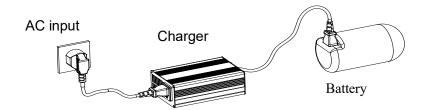


Fig 1. Connection diagram

- 4.1 Before charging, please connect the DC terminal to battery firstly, and then connect the AC terminal.
- 4.2 After charging complete, unplug the AC terminal firstly, and then unplug the DC terminal.
- 4.3 No charging or after charging complete, be sure to unplug the DC terminal and the AC terminal.
- 4.4 LED1, the power on indicator, shows red when the charger starting-up.
- 4.5 LED2, the charging status indicator, shows red during the charger is charging, shows green means the battery is charged complete.

5. Matters Need Attention

- 5.1 Don't cover the charger or intake during charging.
- 5.2 The charger should be placed where children could not touch.
- 5.3 Please charging in indoor area where good ventilation and heat dissipation is. Prohibited charging where is humid, high temperature or a flammable, explosive gas surrounding.
- 5.4 To avoid vibration damage, please don't carry the charger on the driving vehicle long time.
- 5.5 It's danger of high voltage in charger case please do not disassemble it unauthorized.
- 5.6 The losses caused by not operating according to the instruction manual operation, manufacturer does not bear any responsibility.

6. Maintenance

WARNING: Before conducting the following operations, make sure the charger is disconnected with the battery and power connection.

6.1 Routine maint enance

- O Clear dust on vents and fan regularly, to ensure the charger has good heat dissipation.
- O Periodically wipe the case with a cloth with some alcohol.
- Do not use or store the charger in a place of humidity or high temperature.

6.2 Replace the fuse

If the charger can not charge, please confirm the output fuse is blown out. Install only replacement fuse with the identical type and specification as follows and make sure the 1 fuse is fixed firmly in the fuse holder.

6.3 Common malfunction & Solution

Phenomenon	Cause	Solution	
After connecting	Connecting reverse,	Please replace the	
charger and battery,	output fuse blow.	fuse, and then connect	
charger can not work or, LED2 shows green.	Connecting reverse, relay has no action.	charger and battery correctly.	
Battery isn't charged	Charger and battery is	Reconnect charger and	
fully, but LED2 flashes	disconnected.	battery.	
between red and green.	Charger overheating,	Cooling charger,	
	into thermal protection	Charger can	
	mode and standby.	auto-resume to work	
		when temperature cool	
		down.	
After connect charger to	Plug loose, charger	Reconnect the AC wire,	
AC power, charger can	does not connect to AC	and make sure that is	
not work, and two LED	power.	OK.	
don't light.	Charger has damaged	Send charger back to	
		local dealer for repair.	
		There is high-voltage	
		inside charger, please	
		don't open the charger	
		personally.	

This Operating Manual covers information on safety and cautions. Please read it carefully before charging

OPERATING MANUAL