



Upgrade · The Home Creator Way

LIFEPO4 BATTERY CHARGER

**MODEL:UY240-LF1210 / UY240-HF1210
/ UY360-LF1220 / UY360-HF1220**

VEVOR Support Center



UY240-LF1210



UY240-HF1210

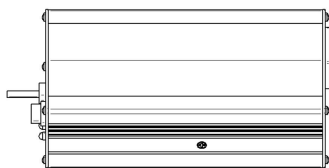


UY360-LF1220

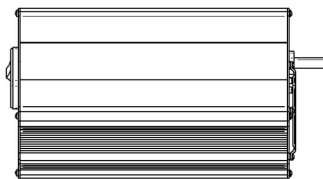


UY360-HF1220

MODEL:UY240-LF1210 / UY240-HF1210 / UY360-LF1220 / UY360-HF1220



UY240-LF1210/UY240-HF1210



UY360-LF1220/UY360-HF1220

(Visuals are for reference only. Product may differ)

This is the original instruction, please read all manual instructions carefully before operating. VEVOR reserves a clear interpretation of our user manual. The appearance of the product shall be subject to the product you received. Please forgive us that we won't inform you again if there are any technology or software updates on our product.

	Warning-To reduce the risk of injury, user must read instructions manual carefully.
	This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:(1)This device may not cause harmful interference, and (2)this device must accept any interference received, including interference that may cause undesired operation.
	This product is subject to the provision of European Directive 2012/19/EC. The symbol showing a wheeled bin crossed through indicates that the product requires separate refuse collection in the European Union. This applies to the product and all accessories marked with this symbol. Products marked as such may not be discarded with normal domestic waste, but must be taken to a collection point for recycling electrical and electronic devices

1.The product complies with relevant standards and regulations.

Installation of this device must comply with all applicable regulations, and it should only be operated in well-ventilated areas. Please read the user manual before installing and using this equipment.

2.Switch off the appliance and disconnect from supply before changing accessories or approaching parts that move in use.

3.Always disconnect the appliance from the supply if it is left unattended and before assembling, disassembling or cleaning.

WARNING: Use only an external supply with the following specifications: See Table “Table 9”.

This appliance is intended to be used in household and similar applications such as:

- Supports charging for various devices such as electric vehicles and gardening tools.

WARNING

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

1. READ AND UNDERSTAND ALL SAFETY INFORMATION BEFORE USING THIS PRODUCT. Failure to follow these safety instructions may result in ELECTRICAL SHOCK, EXPLOSION, FIRE, which may result in a SERIOUS INJURY, DEATH, or PROPERTY DAMAGE.
2. Electrical Shock. Product is an electrical device that can shock and cause serious injury. Do not cut power cords. Do not submerge in water or get wet.
3. Explosion. Unmanned monitoring, incompatible, or damaged batteries can explode if used with product. Do not leave product unattended while in use. Do not attempt to jump start a damaged or frozen battery. Use product only with batteries of recommended voltage. Operate product in well ventilated areas.
4. Fire. Product is an electrical device that emits heat and is capable of causing burns. Do not cover product. Do not smoke or use any source of electrical spark or fire when operating product. Keep product away from combustible materials.
5. The plug must be plugged into a grounded outlet for use.

OVERVIEW

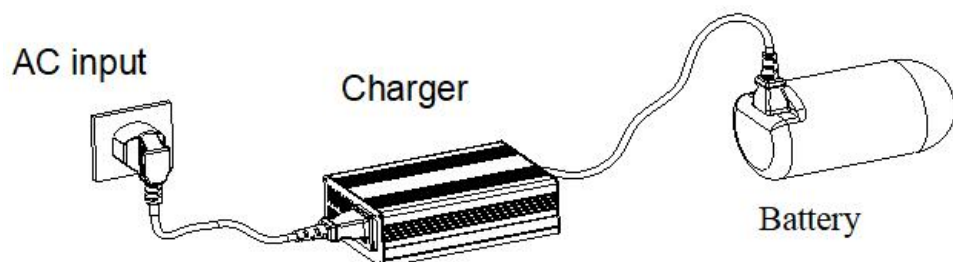
With CPU control and PFM technology, the charger has the advantages like high efficiency, good stability, low-carbon and energy-saving.

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.

LED INDICATOR

	LED1 (Red color)	LED2 (White color)	Charger state
LED Status	RED	GREEN	Standby or Full
	RED	RED	Charging

HOW TO CONNECT



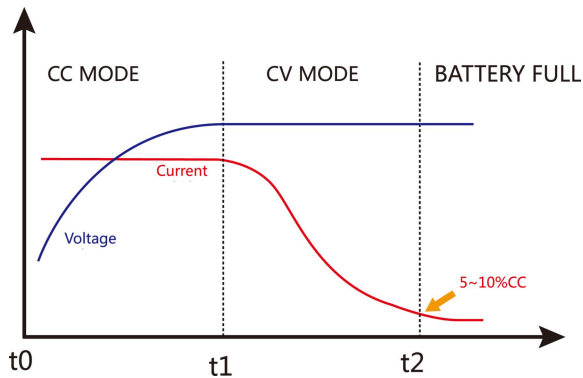
1. Before using, please check the battery specification carefully, ensure that the battery matches the charge mode.
2. Connect the ring terminal of the charger to the batteries, positive to positive, negative to negative.
3. Plug the AC plug to the grid power.

ELECTRONIC CHARACTERISTICS

Item		UY240-LF1210	UY240-HF1210
Output	Charge voltage	14.6V	14.6V
	Charge current	10A $\pm$ 5%	
	Voltage fluctuation	$\pm$ 0.3V	
	Ripple voltage	$\leq$ 2%VOUT _{MAX}	
Input	Voltage Range	100-120VAC	220-240VAC
	Frequency range	60Hz	50Hz
	Efficiency	$\geq$ 80%	
	Input current(type)	2.3A/115Vac	1.4A/230Vac
	Vomit (type)	COLD START $\leq$ 50A at 230VAC	
	Leakage Current	$<$ 0.75mA	
Test Standard(s)		UL1012	EN 60335-1

Item		UY360-LF1220	UY360-HF1220
Output	Charge voltage	14.6V	14.6V
	Charge current	20A $\pm$ 5%	
	Voltage fluctuation	$\pm$ 0.3V	
	Ripple voltage	$\leq$ 2%VOUT _{MAX}	
Input	Voltage Range	100-120VAC	220-240VAC
	Frequency range	60Hz	50Hz
	Efficiency	$\geq$ 80%	
	Input current(type)	4.6A/115Vac	2.7A/230Vac
	Vomit (type)	COLD START $\leq$ 50A at 230VAC	
	Leakage Current	$<$ 0.75mA	
Test Standard(s)		UL1012	EN 60335-1

CHARGE CURVE



1. T0 Constant Current (CC) Stage: The charger delivers maximum output current for rapid charging. The stage automatically terminates when battery voltage reaches the maximum charging voltage.

2. T1 Constant Voltage (CV) Stage: The charger maintains output voltage at full-charge level while charging current gradually decreases. Charging completes when current drops to 5%-10% of maximum value, at which point the battery is determined as fully charged.

3.T2 Battery Full Stage:Low-current trickle charges battery.

MAINTENANCE

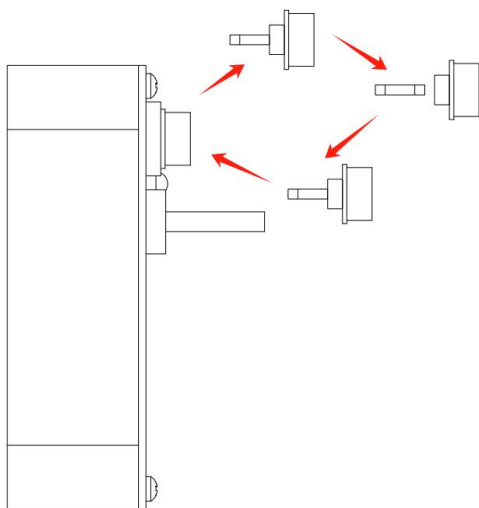
WARNING: Before conducting the following operations, make sure the charger is disconnected with the battery and power connection.

1. Routine maintenance

- Clear dust on vents and fan regularly, to ensure the charger has good heat dissipation.
- 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.

2. Replace the fuse

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



MATTERS NEED ATTENTION

1. Don't cover the charger or intake during charging.
2. The charger should be placed where children could not touch.
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.
- It's danger of high voltage in charger case please do not disassemble it unauthorized.
4. The losses caused by not operating according to the instruction manual operation, manufacturer does not bear any responsibility.
5. If the circuit breaker trips while using charger, please turn off other electrical appliances.
6. Due to line voltage drop, the charging current begins to decrease as it approaches the maximum charge voltage.
7. No charging or after charging complete, be sure to unplug the DC terminal and the AC terminal.

COMMON FAULTS AND HANDLING METHODS

Phenomenon	Cause	Solution
After connecting charger and battery, charger can not work or, LED2 shows green.	Connecting reverse, output fuse blow.	Please replace the fuse, and then connect charger and battery correctly.
	Connecting reverse, relay has no action.	
Battery isn't charged fully, but LED2 flashes between red and green.	Charger and battery is disconnected.	Reconnect charger and battery.
	Charger overheating, into thermal protection mode and standby.	Cooling charger, Charger can auto-resume to work when temperature cool down.
After connect charger to AC power, charger can not work, and two LED1 don't light.	Plug loose, charger does not connect to AC power.	Reconnect the AC wire, and make sure that is OK.
	Charger has damaged	Send charger back to local dealer for repair. There is high-voltage inside charger, please don't open the charger personally.

ACCESSORIES LIST

Model	Accessories list
UY240-LF1210	1. Adapter cable * 1 2. Power cord * 1 3. Insurance tube * 2 4. Instruction manual * 1
UY240-HF1210	
UY360-LF1220	
UY360-HF1220	

