

INTRODUCTION

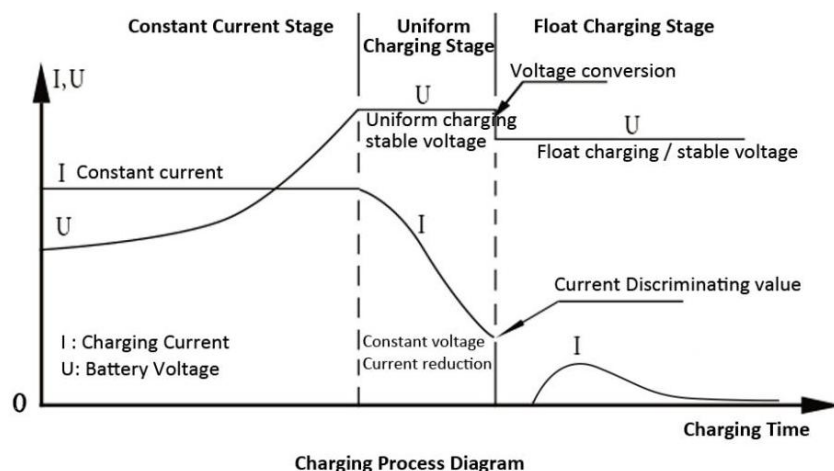
QCL chargers use an isolation transformer as a step-down unit, this isolation transformer converts high-voltage, low-current power into low-voltage, high-current power. A bridge rectifier converts mains AC input to pulsating DC output. And CPU is used to control the output voltages and current.

They can be used on batteries of differing types, including power batteries, capacity batteries, start-up batteries. Or they can be used in a 12, or 24...72 volt system using a combination of 12,24...72v volt lithium-ion or lead-acid batteries. QCL battery chargers will handle their own charging and stop when full charged. Therefore there's no need for a person to be on duty.

They also have devulcanization repair and equalization mode, equalizing charge can compensate for the unbalance between batteries, which lengthens the life of batteries.

1. QCL series battery chargers are designed for charging various voltage battery packs (12V/24V...72V). The voltage output is critical and must match your battery pack.

2. The charger's output current is adjustable, and the internal protection circuit will limit the max charging current to prevent overload. Charging speed will differ based on a charger amperage. Pick the charger amperage and charging speed that's right for your batteries.



HOW TO CHARGE BATTERIES?

QCL Series battery charger are engineered for precision recharging to promote battery life, deliver consistent reliability and prevent overcharging mistakes.

Step 1

Read the specifications for your battery.

Identify the positive negative on your battery.

Step 2

Set the charger to deliver the correct voltage.

Connect the charger to the battery. Attach the black cable from the charger with the negative (-) sign on it to the negative terminal on the battery marked with the same symbol. Then attach the red cable with the positive (+) sign to the positive terminal on the battery with the corresponding symbol

Step 3

Select charging voltage matches to batteries voltage, 12V for 12V batteries.

Step 4

Plug the charger into an outlet. The charger should be equipped with a grounded plug (three pronged plug) and should be plugged into a properly grounded outlet (three prong outlet). An adapter should not be used.

Step 5

Leave the battery on the charger until the battery is fully charged, Once fully charged the current will turn Zero

VOLTAGE CONTROL

Adjust voltage and current with the control knob for desired charging.

a. Standard charging mode

There are four standard charging positions: 12V and 24V...72V.

b. For different batteries

Choose the battery type you want to charge, and the charger will provide the most professional charging mode.

Digital Display

Display voltage and current changes every five seconds. (OFF means battery connection is wrong or circuit failure)

Charge Status Indicators

Red light-charging;
Green light-fully charged, Ampere "0"

1. Maintenance of the charger

- Wipe clean cords and clamps after each use.
- Store the power and output cables neatly to prevent damage.
- The charger housing may be cleaned using a damp cloth and mild cleaning agent.
- Always unplug the charger when not in use.
- Keep the charger stored in a cool, dry place.

SPECIFICATIONS:

MODEL	QCL- C15 battery charger	QCL- B20 battery charger	QCL- B30 battery charger	QCL- B40 battery charger
Battery Type	Lead-acid LiFePO4	Lead-acid LiFePO4	Lead-acid LiFePO4	Lead-acid LiFePO4
Battery Volt.	6V/8V 12V/24V	12V/24V 36V/48V	12V/24V/36V 48V/60V/72V	12V/24V/36V 48V/60V/72V
Max. Current	15A	12V-12A,24V-10A 36V-8A,48V-6A	12V-14A, 24V-12A, 36V-10A, 48V-8A, 60V-6A, 72V-4A	12V-16A, 24V-14A, 36V-12A, 48V-10A, 60V-8A, 72V-6A
Charging Rate	Fixed	Adjustable	Adjustable	Adjustable
Package Size	12.6*11.0*9.6 inch	14.5*8.9*12.3 inch	14.5*8.9*12.3 inch	14.5*8.9*12.3 inch
Package Weight	15.0 pounds	17.7 pounds	19.96 pounds	23.1 pounds



User manual

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