

## Beleeb BLB-C30

# Beleeb Adjustable Battery Charger User Manual

Model: BLB-C30

## 1. INTRODUCTION

Thank you for choosing the Beleeb Adjustable Battery Charger, Model BLB-C30. This versatile charger is designed to efficiently charge and maintain a wide range of battery types and voltages, from 12V to 72V. It features a smart LCD display, pulse repair capabilities, and desulfation technology to extend battery life. Please read this manual thoroughly before operation to ensure safe and optimal performance.



The Beleeb BLB-C30 Adjustable Battery Charger, a versatile tool for various battery charging needs.

## 2. SAFETY INFORMATION

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**WARNING: Read all safety warnings and instructions. Failure to follow the warnings and instructions may result in electric shock, fire, and/or serious injury.**

- Always wear appropriate personal protective equipment, including eye protection and gloves, when working with batteries.
- Ensure adequate ventilation during charging to prevent the buildup of explosive gases.
- Do not expose the charger to rain or wet conditions.
- Never attempt to charge a frozen or damaged battery.
- Ensure the charger is disconnected from the AC power outlet before making or breaking connections to the battery.
- Keep the charger and battery away from open flames, sparks, and heat sources.
- This charger is for charging lead-acid (SLA, AGM, GEL, Deep Cycle) and LiFePO4 batteries with Battery Management Systems (BMS) only. Do not use for other battery types.

## 3. PRODUCT OVERVIEW

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### 3.1 Components and Controls

# How to Choose Voltage for Your Battery?

The voltage of the charger must match the output voltage of the battery. The same applies to batteries in a parallel or in a series , Otherwise charger will "OFF" until restart.



Overview of the Beleeb BLB-C30 charger's main components and controls.

- LCD Display:** Shows real-time voltage, amperage, and error codes.
- Indicator Light:** Red for charging, Green for fully charged.
- Power Switch:** ON/OFF switch for the unit.
- Level Volt Knob:** Selects the charging voltage (12V, 24V, 36V, 48V, 60V, 72V) and 'H' mode for pulse repair/equalization.
- Ampere Control Knob:** Adjusts the charging current (Low, Medium, High).
- Output Terminals:** Positive (+) and Negative (-) connections for battery clamps.
- Overload Reset Button:** Resets the charger in case of an overload.
- AC Input:** Power cord connection (110V, 50/60Hz).

## 4. SETUP AND CONNECTION

Follow these steps to safely connect your battery charger:

1. Ensure the charger's power switch is in the **OFF** position.

2. Connect the red (positive) battery clamp to the positive (+) terminal of the battery.
3. Connect the black (negative) battery clamp to the negative (-) terminal of the battery.
4. Plug the charger's AC power cord into a standard 110V, 50/60Hz electrical outlet.
5. Select the appropriate voltage on the **Level Volt Knob** that matches your battery's voltage.
6. Turn the charger's power switch to the **ON** position. The red indicator light will illuminate, and the LCD display will show the charging status.

# EVERYTHING CHARGER



4-Stages Charging



Real-time Charging Display



Wide Voltage Set



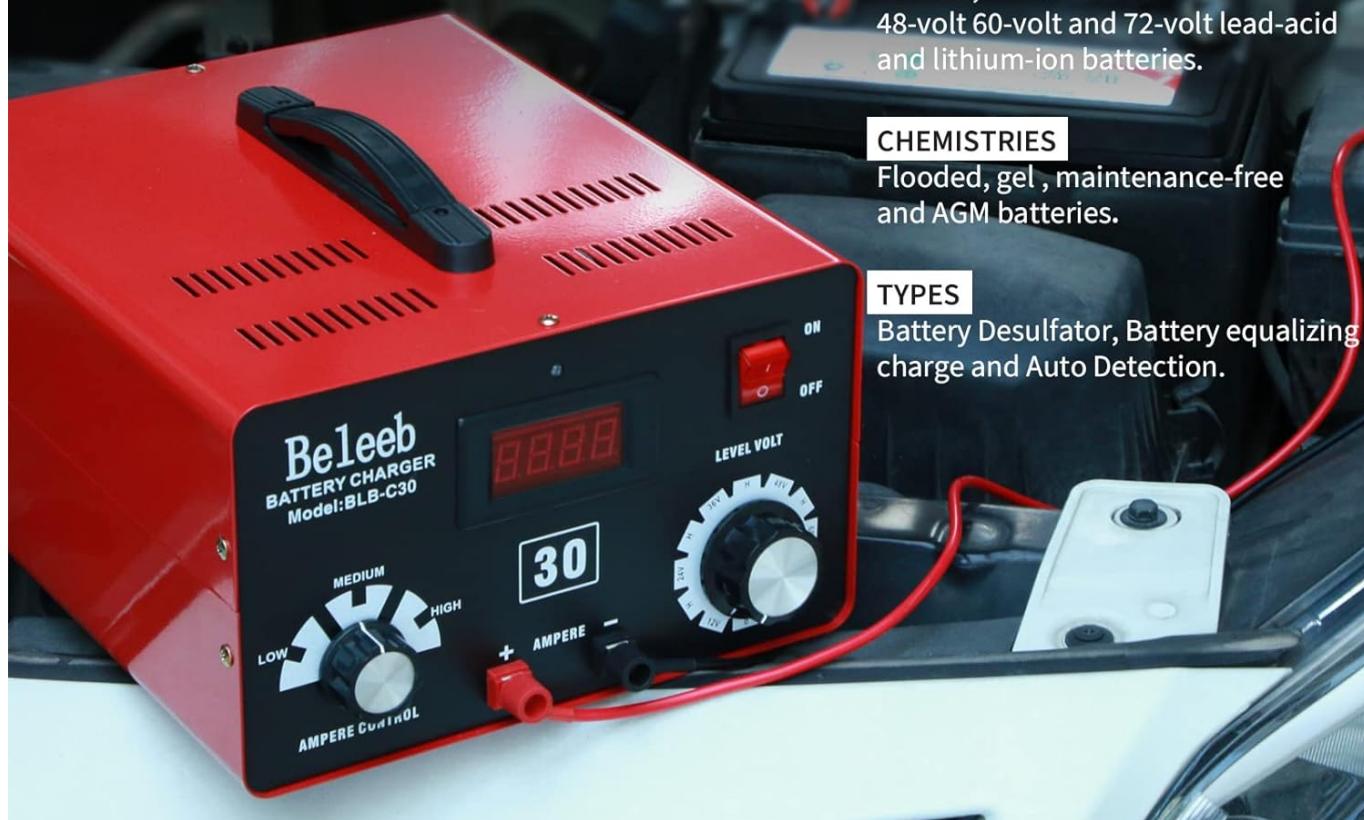
Recondition



Multiple Safety Protections



Auto Select Charging Rate



**MULTI-VOLTAGE**  
12-volt, 24-volt, 36-volt  
48-volt, 60-volt and 72-volt lead-acid  
and lithium-ion batteries.

**CHEMISTRIES**  
Flooded, gel, maintenance-free  
and AGM batteries.

**TYPES**  
Battery Desulfator, Battery equalizing  
charge and Auto Detection.

Proper connection of the charger to a 12V battery using the red and black clamps.

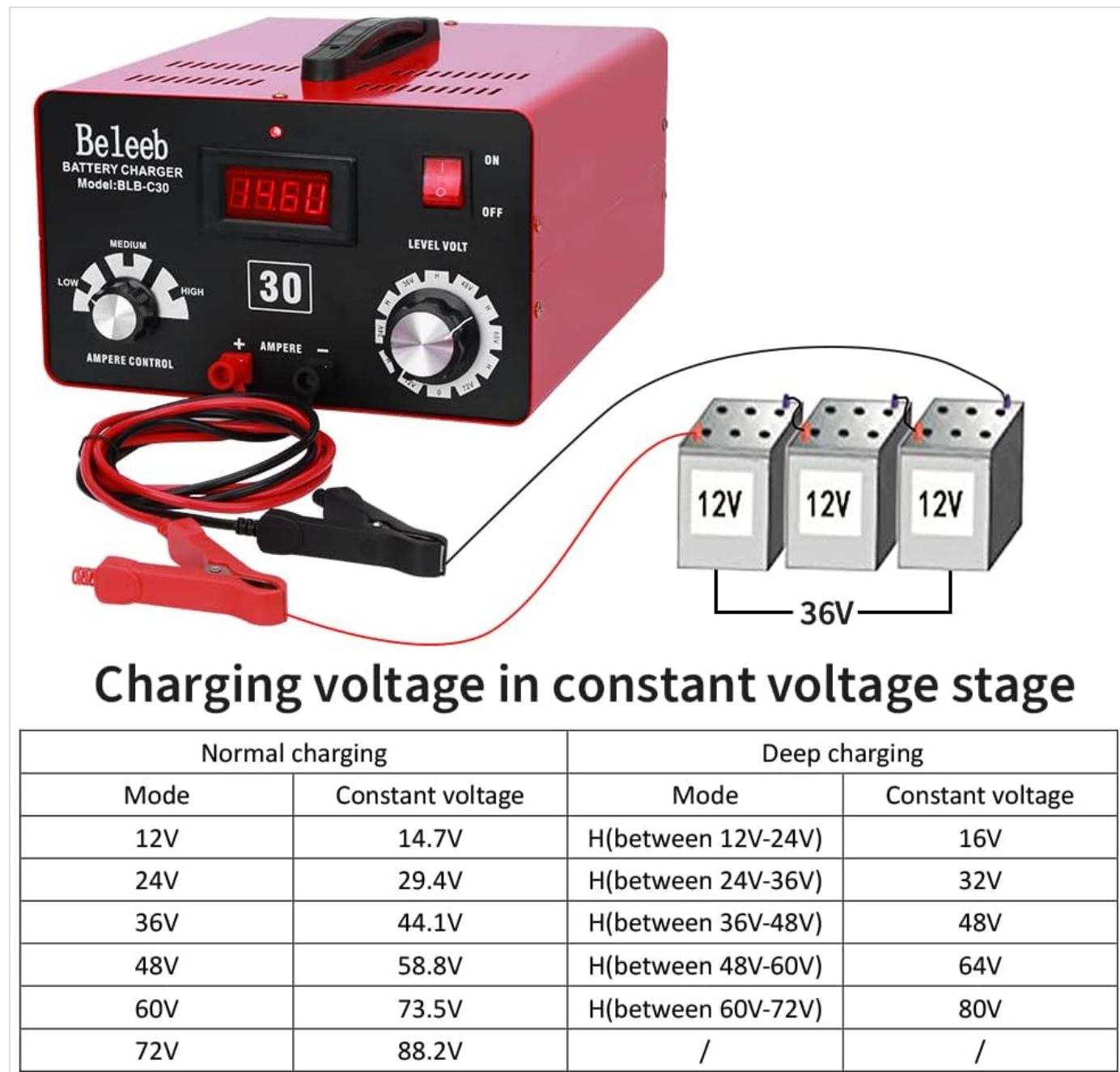
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Video demonstrating the connection process and initial power-on of the Beleeb battery charger.

## 5. OPERATING INSTRUCTIONS

### 5.1 Voltage Selection

The **Level Volt Knob** allows you to select the appropriate voltage for your battery pack. Ensure the selected voltage matches your battery's nominal voltage (e.g., 12V, 24V, 36V, 48V, 60V, 72V). If an incorrect voltage is selected, the charger may stop charging after a few seconds to protect your battery. To restart, adjust the knob to the correct voltage and cycle the power switch.



## Charging voltage in constant voltage stage

Normal charging		Deep charging	
Mode	Constant voltage	Mode	Constant voltage
12V	14.7V	H(between 12V-24V)	16V
24V	29.4V	H(between 24V-36V)	32V
36V	44.1V	H(between 36V-48V)	48V
48V	58.8V	H(between 48V-60V)	64V
60V	73.5V	H(between 60V-72V)	80V
72V	88.2V	/	/

Close-up of the Level Volt knob, showing various voltage settings including the 'H' mode.

## 5.2 Amperage Control

Use the **Ampere Control Knob** to select the charging current: **LOW**, **MEDIUM**, or **HIGH**. A lower current provides a slower, more thorough charge, which is beneficial for battery health and desulfation. A higher current offers faster charging.

# Switching Point & Indicator



Close-up of the Ampere Control knob, allowing selection of low, medium, or high charging current.

## 5.3 Pulse Repair (H Mode) and Desulfation

The 'H' position on the **Level Volt Knob** activates the pulse repair and desulfation mode. This mode applies high-voltage pulses to break up sulfate crystals that can build up on lead-acid battery plates, restoring lost battery performance and extending battery lifespan. This mode also functions as an equalizing charge, balancing individual cells within a battery pack.

**Stage 1: Deep Discharge Charging Pulse Mode**

**Stage 2: Constant Current Mode (CC)**, constant current, voltage slowly increases

**Stage 3: Constant Voltage Mode (CV)**, constant voltage, current slowly reduces.

**Stage 4: Standby Voltage Mode**, current slowly reduces to zero.

### **Recharging:**

If the battery voltage drops , The charging cycle will go through Stage 2 to Stage 4.



Illustration of how desulfation technology works to restore battery performance.

## **5.4 Charging Process and Indicators**

The charger utilizes a multi-stage charging process to optimize battery health and charging efficiency:

- **Stage 1: Deep Discharge Charging Pulse Mode:** For deeply discharged batteries.
- **Stage 2: Constant Current Mode (CC):** Current is constant, voltage slowly increases.
- **Stage 3: Constant Voltage Mode (CV):** Voltage is constant, current slowly reduces.
- **Stage 4: Standby Voltage Mode:** Current slowly reduces to zero, maintaining the battery.

The **LCD Display** shows real-time voltage and amperage. The **Indicator Light** will be red during charging and turn green when the battery is fully charged (current drops to 0 amps). The charger can be left connected indefinitely without harming the battery once fully charged.

# Beleeb C30 Battery Charger Wide voltage 12V 24V 36V 48V 60V 72V



## Battery charger

Scooter	Motorcycle	Jet Ski	ATV	Weeder	Car	SUV	Truck	RV	Tractor	Boat
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Diagram illustrating the four-stage charging process of the Beleeb battery charger.

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Video showcasing the various functions and operational aspects of the Beleeb ALL IN ONE battery charger.

## 6. MAINTENANCE

- Cleaning:** Disconnect the charger from power and battery. Wipe the casing with a soft, dry cloth. Do not use abrasive cleaners or solvents.
- Cable Care:** Inspect battery cables and clamps for damage before each use. Replace if frayed or broken.
- Storage:** Store the charger in a cool, dry place when not in use. Keep out of reach of children.

## 7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Charger not turning on / No display	No AC power; Loose connections; Blown fuse.	Check AC outlet and power cord. Ensure battery clamps are securely connected. Check and replace fuse if necessary.
Charger stops after a few seconds (shows "OFF" or error)	Incorrect voltage selected; Battery fault (e.g., short circuit, reverse polarity).	Verify the <b>Level Volt Knob</b> matches battery voltage. Check battery for faults. Disconnect and reconnect.
Battery not charging or charging slowly	Low amperage setting; Severely discharged battery; Battery sulfation.	Increase <b>Ampere Control Knob</b> setting. For deeply discharged batteries, use 'H' mode for pulse repair. Allow more time for charging.

Problem	Possible Cause	Solution
Overload indicator / Charger shuts off	Overcurrent; Internal fault.	Press the <b>Overload Reset Button</b> . Reduce amperage setting. If problem persists, contact support.

## 8. SPECIFICATIONS

Feature	Detail
Model Number	BLB-C30
Input AC Voltage	100-130VAC
Charging Voltage Range	12V, 24V, 36V, 48V, 60V, 72V
Max Current (Nominal Theoretical)	12V-14A, 24V-12A, 36V-10A, 48V-8A, 60V-6A, 72V-4A
Frequency	50/60Hz
Product Dimensions	11.4 x 9.85 x 6.3 inches (29 x 25 x 16 cm)
Item Weight	19.96 pounds (9.05 kg)
Compatible Battery Types	SLA, AGM, GEL, LiFePO4, Lithium, Deep Cycle

## 9. WARRANTY AND SUPPORT

Beleeb offers various protection plans for your product. Please refer to your purchase documentation for specific warranty details and terms. For technical support, troubleshooting assistance, or to inquire about replacement parts, please contact Beleeb customer service.

An official User Manual in PDF format is also available for download:[Download User Manual \(PDF\)](#)

### Related Documents - BLB-C30

 <p>Beleeb Pulses High-Voltage Automatic Battery Charger 12V 24V 36V 48V 60V 72V Manuel et spécifications de chargeur de batterie automatique Beleeb Series</p> <p>Le chargeur de batterie Beleeb Series est conçu pour charger les batteries de voitures, de camions et de bateaux. Il offre une charge rapide et sûre pour les batteries de plomb-acide et lithium-ion. Ce manuel fournit des instructions détaillées pour l'installation, la configuration et l'utilisation du chargeur. Il explique les fonctionnalités intelligentes de charge, la désulfuration et la maintenance des batteries. Il fournit également des informations sur les types de batteries compatibles et les spécifications techniques.</p>	<p><a href="#">Beleeb Pulses High-Voltage Automatic Battery Charger 12V-72V   Manual &amp; Specifications</a></p> <p>Comprehensive guide for the Beleeb Series High-Voltage Automatic Battery Charger (12V-72V). Covers features like desulfation, intelligent charging, safety instructions, applications, troubleshooting, and technical specifications.</p>

<p><b>Beleeb Pulses of High-Voltage Automatic Battery Charger 12V-72V</b></p> <p>Why choose Beleeb Series versatile battery chargers?</p> <p>Beleeb's advanced desulfation technology is designed to extend battery life and maintain optimal performance. Our chargers are built with high-quality components and feature intelligent pulse charging, which provides a more efficient and effective way to charge batteries. They are suitable for a wide range of applications, including automotive, marine, industrial, and consumer use. The Beleeb Series chargers are easy to use and offer a range of features, such as automatic voltage detection, overcharge protection, and overdischarge prevention. They are also compact and lightweight, making them easy to transport and install.</p> <p></p> <p>Read and understand the following manual completely before using this product. Failure to do so may result in damage to the product or personal injury. This product is not a power source and is not designed for use as a power source.</p>	<p><b>Beleeb Pulses High-Voltage Automatic Battery Charger 12V-72V User Manual &amp; Specs</b></p> <p>Comprehensive user manual and technical specifications for the Beleeb Series High-Voltage Automatic Battery Charger (12V-72V). Covers desulfation technology, safety guidelines, applications, connection procedures, charging modes, troubleshooting, and technical data.</p>
<p><b>Beleeb Multi-Voltage Intelligent Battery Charger User Manual</b></p> <p>Comprehensive user manual for Beleeb battery chargers (BLB-C15, BLB-C20, BLB-C30, BLB-C40, BLB-C50, BLB-C80), covering features, safety precautions, operating instructions for normal and desulfation modes, maintenance, troubleshooting, and warranty information. Optimize battery performance and extend lifespan with intelligent pulse charging.</p>	<p><b>Beleeb Multi-Voltage Intelligent Battery Charger User Manual</b></p> <p>Comprehensive user manual for Beleeb battery chargers (BLB-C15, BLB-C20, BLB-C30, BLB-C40, BLB-C50, BLB-C80), covering features, safety precautions, operating instructions for normal and desulfation modes, maintenance, troubleshooting, and warranty information. Optimize battery performance and extend lifespan with intelligent pulse charging.</p>
<p><b>Beleeb Battery Charger User Manual: Advanced Multi-Voltage Charging Solution</b></p> <p>Explore the Beleeb Battery Charger user manual for detailed instructions on operating and maintaining your advanced battery charger. Learn about its desulfation capabilities, multi-voltage compatibility (6V-72V), intelligent pulse charging, and safety features for maximizing battery performance and lifespan.</p>	<p><b>Beleeb Battery Charger User Manual: Advanced Multi-Voltage Charging Solution</b></p> <p>Explore the Beleeb Battery Charger user manual for detailed instructions on operating and maintaining your advanced battery charger. Learn about its desulfation capabilities, multi-voltage compatibility (6V-72V), intelligent pulse charging, and safety features for maximizing battery performance and lifespan.</p>
<p><b>Beleeb High-Voltage Automatic Battery Charger User Manual BLB-C15/C20/C30/C40</b></p> <p>Discover Beleeb high-voltage automatic battery chargers (BLB-C15, BLB-C20, BLB-C30, BLB-C40) designed for extending battery life through advanced desulfation technology. These versatile chargers support 6V to 72V lead-acid and lithium-ion batteries, including flooded, gel, AGM, and deep-cycle types. Learn about their intelligent charging modes, safety features, and technical specifications for optimal battery maintenance in automotive, marine, industrial, and consumer applications.</p>	<p><b>Beleeb High-Voltage Automatic Battery Charger User Manual BLB-C15/C20/C30/C40</b></p> <p>Discover Beleeb high-voltage automatic battery chargers (BLB-C15, BLB-C20, BLB-C30, BLB-C40) designed for extending battery life through advanced desulfation technology. These versatile chargers support 6V to 72V lead-acid and lithium-ion batteries, including flooded, gel, AGM, and deep-cycle types. Learn about their intelligent charging modes, safety features, and technical specifications for optimal battery maintenance in automotive, marine, industrial, and consumer applications.</p>