

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.



2. SAFETY INFORMATION

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

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.

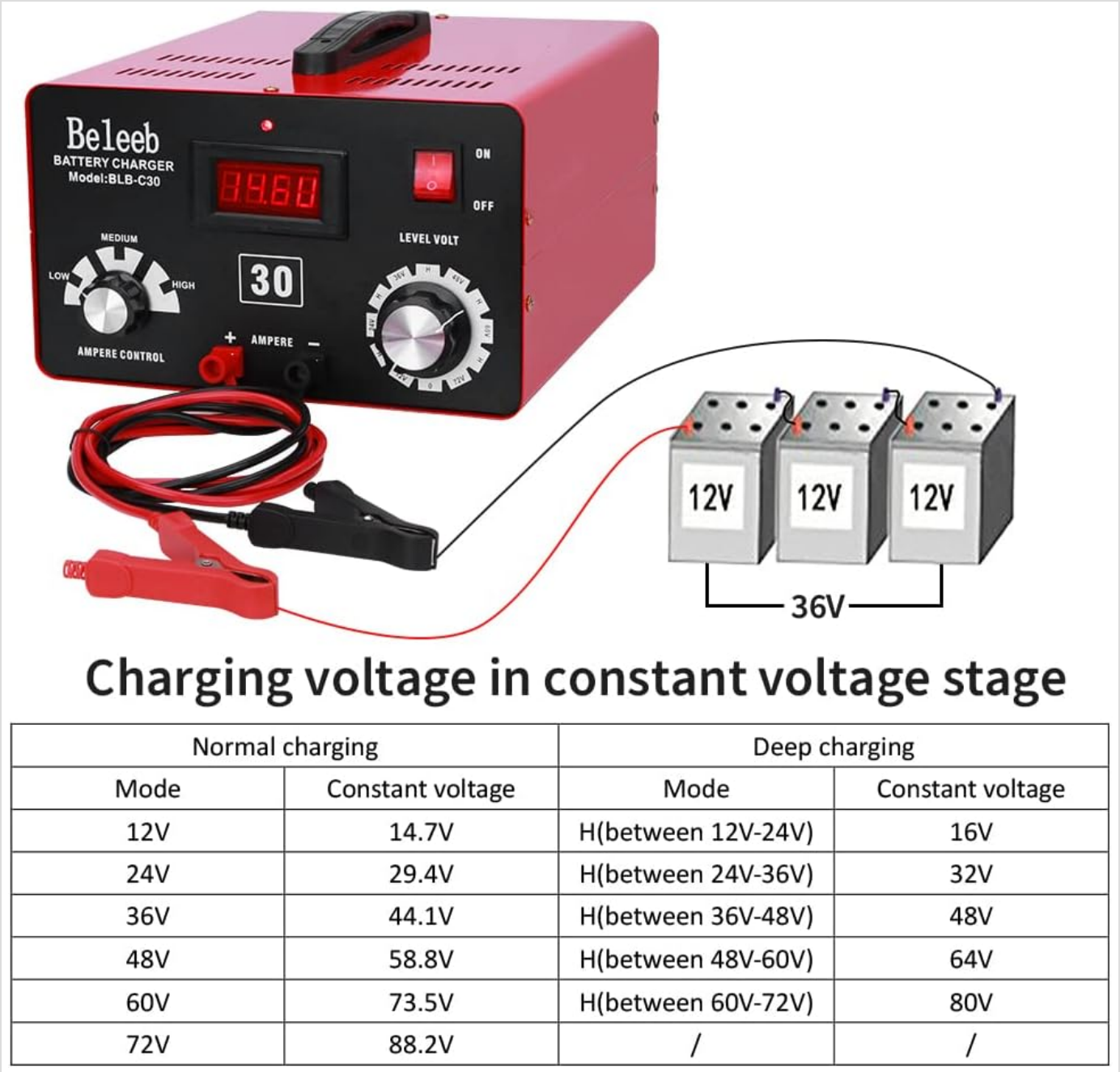
Your browser does not support the video tag.

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.



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

5.2 Amperage Control

Use the **Amperage 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.

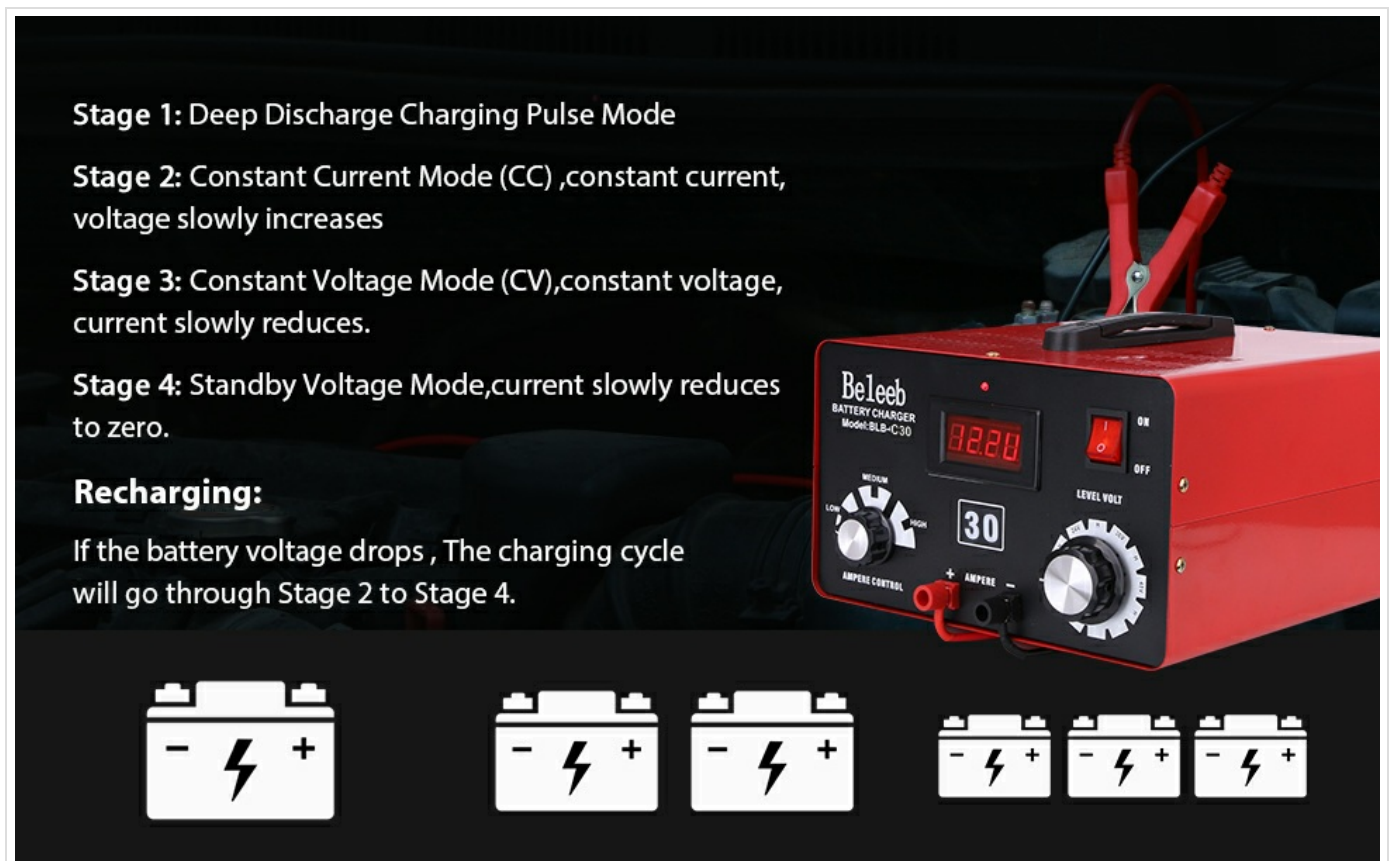


Illustration of how desulfation technology works to restore battery performance.

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.

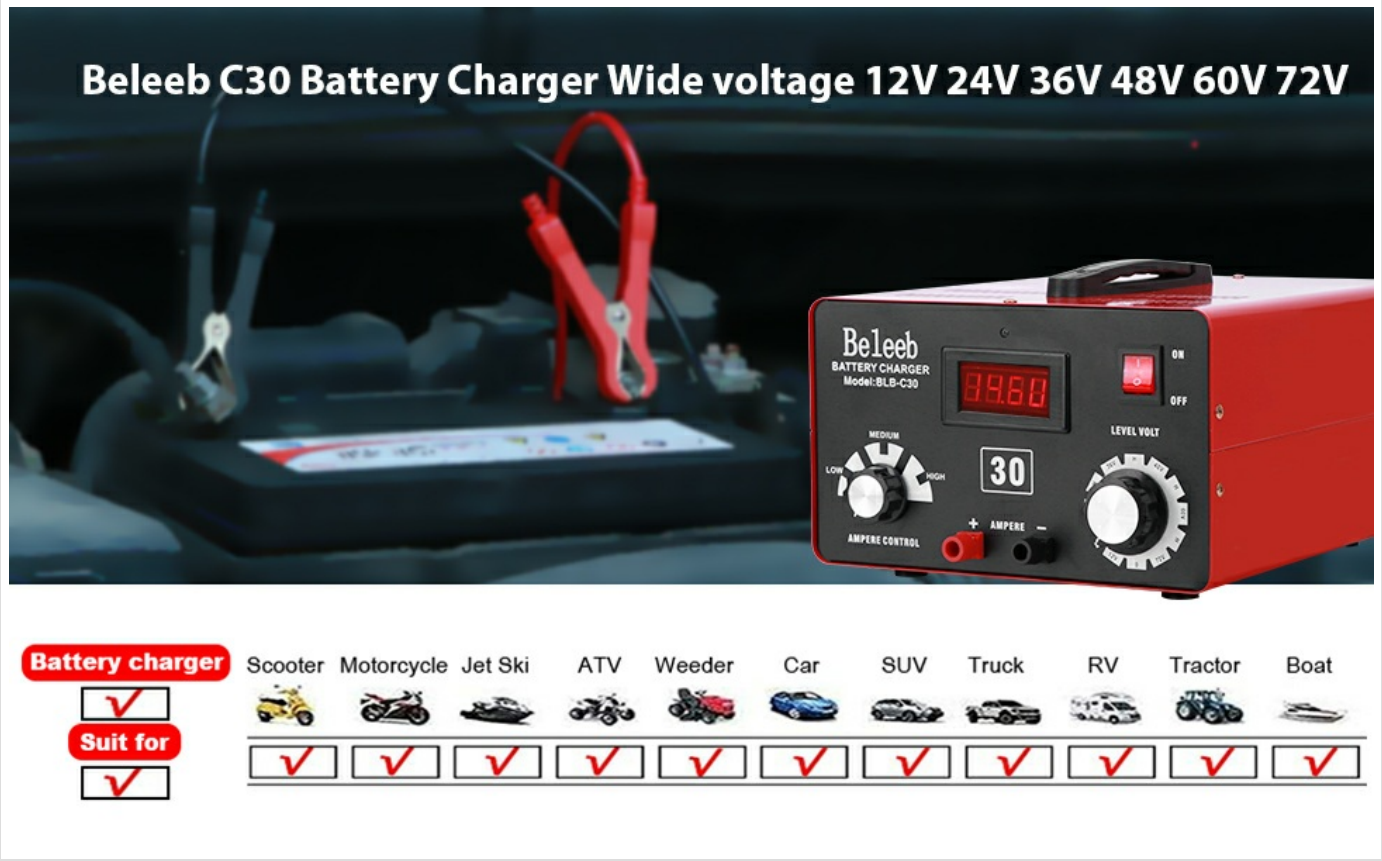


Diagram illustrating the four-stage charging process of the Beleeb battery charger.

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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 Level Volt Knob 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 Ampere Control Knob 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 Overload Reset Button . 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

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|---|---|
| <div><p>Beleeb Pulses de chargeur de batterie automatique haute tension 12V-24V-36V-48V-60V-72V</p><p>Manuel complet du chargeur de batterie Beleeb Series (12V-72V). Découvrez ses fonctions de désulfatation, maintenance, et compatibilité avec batteries plomb-acide et lithium-ion. Inclut instructions de sécurité et spécifications techniques.</p></div> | <p>Chargeur de Batterie Beleeb Haute Tension 12V-72V : Manuel et Spécifications</p> |
| <div><p>Beleeb Pulses of High-Voltage Automatic Battery Charger 12V-24V-36V-48V-60V-72V</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></div> | <p>Beleeb Pulses High-Voltage Automatic Battery Charger 12V-72V Manual & Specifications</p> |

| <div><p>Beleeb Pulses of High-Voltage Automatic Battery Charger 12V-24V-36V-48V-60V-72V</p><p>Why choose Beleeb Series versatile battery charger?</p><p>Beleeb Series High-Voltage Automatic Battery Charger is designed for charging 12V, 24V, 36V, 48V, 60V, 72V lead-acid and lithium-ion batteries. It features advanced desulfation technology, intelligent pulse charging, and multiple safety protection functions. The charger is suitable for automotive, marine, industrial, and consumer applications. It has a compact design, easy operation, and a long service life.</p><p>Key Features:</p><ul style="list-style-type: none">Advanced desulfation technology to extend battery life.Intelligent pulse charging for efficient and safe charging.Multiple safety protection functions, including overcharge, overcurrent, and short-circuit protection.Wide voltage range (12V-72V) for various battery types.Compact design and easy operation.<p>Applications:</p><ul style="list-style-type: none">Automotive: Cars, trucks, motorcycles.Marine: Boats, yachts, outboard motors.Industrial: Forklifts, pallet trucks, material handling equipment.Consumer: Power tools, backup power systems.<p>Technical Specifications:</p><table><tr><th>Model</th><th>Voltage (V)</th><th>Current (A)</th><th>Power (W)</th></tr><tr><td>BLB-C15</td><td>12V</td><td>15A</td><td>180W</td></tr><tr><td>BLB-C20</td><td>12V</td><td>20A</td><td>240W</td></tr><tr><td>BLB-C30</td><td>12V</td><td>30A</td><td>360W</td></tr><tr><td>BLB-C40</td><td>12V</td><td>40A</td><td>480W</td></tr><tr><td>BLB-C50</td><td>12V</td><td>50A</td><td>600W</td></tr><tr><td>BLB-C80</td><td>12V</td><td>80A</td><td>960W</td></tr></table></div> | Model | Voltage (V) | Current (A) | Power (W) | BLB-C15 | 12V | 15A | 180W | BLB-C20 | 12V | 20A | 240W | BLB-C30 | 12V | 30A | 360W | BLB-C40 | 12V | 40A | 480W | BLB-C50 | 12V | 50A | 600W | BLB-C80 | 12V | 80A | 960W | <p>Beleeb Pulses High-Voltage Automatic Battery Charger 12V-72V User Manual & Specs</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> |
|---|-------------|-------------|-------------|-----------|---------|--------|-----|------|---------|--------|-----|------|---------|--------|-----|------|---------|--------|-----|------|--|--------|-----|------|---------|--------|-----|------|--|
| Model | Voltage (V) | Current (A) | Power (W) | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BLB-C15 | 12V | 15A | 180W | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BLB-C20 | 12V | 20A | 240W | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BLB-C30 | 12V | 30A | 360W | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BLB-C40 | 12V | 40A | 480W | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BLB-C50 | 12V | 50A | 600W | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BLB-C80 | 12V | 80A | 960W | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <div><p>Beleeb Multi-Voltage Intelligent Battery Charger User Manual</p><p>Why choose Beleeb Series intelligent battery charger?</p><p>Beleeb Series Multi-Voltage Intelligent Battery Charger is designed for charging 6V, 12V, 24V, 36V, 48V, 60V, 72V lead-acid and lithium-ion batteries. It features intelligent pulse charging, multi-voltage compatibility, and multiple safety protection functions. The charger is suitable for automotive, marine, industrial, and consumer applications. It has a compact design, easy operation, and a long service life.</p><p>Key Features:</p><ul style="list-style-type: none">Intelligent pulse charging for efficient and safe charging.Multi-voltage compatibility (6V-72V) for various battery types.Multiple safety protection functions, including overcharge, overcurrent, and short-circuit protection.Compact design and easy operation.<p>Applications:</p><ul style="list-style-type: none">Automotive: Cars, trucks, motorcycles.Marine: Boats, yachts, outboard motors.Industrial: Forklifts, pallet trucks, material handling equipment.Consumer: Power tools, backup power systems.<p>Technical Specifications:</p><table><tr><th>Model</th><th>Voltage (V)</th><th>Current (A)</th><th>Power (W)</th></tr><tr><td>BLB-C15</td><td>6V-72V</td><td>15A</td><td>180W</td></tr><tr><td>BLB-C20</td><td>6V-72V</td><td>20A</td><td>240W</td></tr><tr><td>BLB-C30</td><td>6V-72V</td><td>30A</td><td>360W</td></tr><tr><td>BLB-C40</td><td>6V-72V</td><td>40A</td><td>480W</td></tr><tr><td>BLB-C50</td><td>6V-72V</td><td>50A</td><td>600W</td></tr><tr><td>BLB-C80</td><td>6V-72V</td><td>80A</td><td>960W</td></tr></table></div> | Model | Voltage (V) | Current (A) | Power (W) | BLB-C15 | 6V-72V | 15A | 180W | BLB-C20 | 6V-72V | 20A | 240W | BLB-C30 | 6V-72V | 30A | 360W | BLB-C40 | 6V-72V | 40A | 480W | BLB-C50 | 6V-72V | 50A | 600W | BLB-C80 | 6V-72V | 80A | 960W | <p>Beleeb Multi-Voltage Intelligent Battery Charger User Manual</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> |
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| BLB-C15 | 6V-72V | 15A | 180W | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| BLB-C40 | 6V-72V | 40A | 480W | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BLB-C50 | 6V-72V | 50A | 600W | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BLB-C80 | 6V-72V | 80A | 960W | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <div><p>Beleeb Battery Charger User Manual: Advanced Multi-Voltage Charging Solution</p><p>Why choose Beleeb Series advanced multi-voltage battery charger?</p><p>Beleeb Series Advanced Multi-Voltage Battery Charger is designed for charging 6V, 12V, 24V, 36V, 48V, 60V, 72V lead-acid and lithium-ion batteries. It features advanced multi-voltage compatibility, intelligent pulse charging, and multiple safety protection functions. The charger is suitable for automotive, marine, industrial, and consumer applications. It has a compact design, easy operation, and a long service life.</p><p>Key Features:</p><ul style="list-style-type: none">Advanced multi-voltage compatibility (6V-72V) for various battery types.Intelligent pulse charging for efficient and safe charging.Multiple safety protection functions, including overcharge, overcurrent, and short-circuit protection.Compact design and easy operation.<p>Applications:</p><ul style="list-style-type: none">Automotive: Cars, trucks, motorcycles.Marine: Boats, yachts, outboard motors.Industrial: Forklifts, pallet trucks, material handling equipment.Consumer: Power tools, backup power systems.<p>Technical Specifications:</p><table><tr><th>Model</th><th>Voltage (V)</th><th>Current (A)</th><th>Power (W)</th></tr><tr><td>BLB-C15</td><td>6V-72V</td><td>15A</td><td>180W</td></tr><tr><td>BLB-C20</td><td>6V-72V</td><td>20A</td><td>240W</td></tr><tr><td>BLB-C30</td><td>6V-72V</td><td>30A</td><td>360W</td></tr><tr><td>BLB-C40</td><td>6V-72V</td><td>40A</td><td>480W</td></tr><tr><td>BLB-C50</td><td>6V-72V</td><td>50A</td><td>600W</td></tr><tr><td>BLB-C80</td><td>6V-72V</td><td>80A</td><td>960W</td></tr></table></div> | Model | Voltage (V) | Current (A) | Power (W) | BLB-C15 | 6V-72V | 15A | 180W | BLB-C20 | 6V-72V | 20A | 240W | BLB-C30 | 6V-72V | 30A | 360W | BLB-C40 | 6V-72V | 40A | 480W | BLB-C50 | 6V-72V | 50A | 600W | BLB-C80 | 6V-72V | 80A | 960W | <p>Beleeb Battery Charger User Manual: Advanced Multi-Voltage Charging Solution</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> |
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| BLB-C40 | 6V-72V | 40A | 480W | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BLB-C50 | 6V-72V | 50A | 600W | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BLB-C80 | 6V-72V | 80A | 960W | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <div><p>Beleeb Pulses of High-Voltage Automatic Battery Charger BLB-C15/C20/C30/C40</p><p>Why choose Beleeb Series versatile battery charger?</p><p>Beleeb Series High-Voltage Automatic Battery Charger is designed for charging 12V, 24V, 36V, 48V, 60V, 72V lead-acid and lithium-ion batteries. It features advanced desulfation technology, intelligent pulse charging, and multiple safety protection functions. The charger is suitable for automotive, marine, industrial, and consumer applications. It has a compact design, easy operation, and a long service life.</p><p>Key Features:</p><ul style="list-style-type: none">Advanced desulfation technology to extend battery life.Intelligent pulse charging for efficient and safe charging.Multiple safety protection functions, including overcharge, overcurrent, and short-circuit protection.Wide voltage range (12V-72V) for various battery types.Compact design and easy operation.<p>Applications:</p><ul style="list-style-type: none">Automotive: Cars, trucks, motorcycles.Marine: Boats, yachts, outboard motors.Industrial: Forklifts, pallet trucks, material handling equipment.Consumer: Power tools, backup power systems.<p>Technical Specifications:</p><table><tr><th>Model</th><th>Voltage (V)</th><th>Current (A)</th><th>Power (W)</th></tr><tr><td>BLB-C15</td><td>12V</td><td>15A</td><td>180W</td></tr><tr><td>BLB-C20</td><td>12V</td><td>20A</td><td>240W</td></tr><tr><td>BLB-C30</td><td>12V</td><td>30A</td><td>360W</td></tr><tr><td>BLB-C40</td><td>12V</td><td>40A</td><td>480W</td></tr></table></div> | Model | Voltage (V) | Current (A) | Power (W) | BLB-C15 | 12V | 15A | 180W | BLB-C20 | 12V | 20A | 240W | BLB-C30 | 12V | 30A | 360W | BLB-C40 | 12V | 40A | 480W | <p>Beleeb High-Voltage Automatic Battery Charger User Manual BLB-C15/C20/C30/C40</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> | | | | | | | | |
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| BLB-C40 | 12V | 40A | 480W | | | | | | | | | | | | | | | | | | | | | | | | | | |