



**2A/8A/15A 6V/12V AUTOMATIC
BATTERY CHARGER
WITH 25A START AID INSTRUCTION MANUAL**

BTC-6015

**Please read before use
Save this manual for future
reference**



SAFETY GUIDELINES/DEFINITIONS

- **DANGER:** Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.
- **WARNING:** Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.
- **CAUTION:** Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury.
- **CAUTION:** Used without the safety alert symbol indicates potentially hazardous situation which, if not avoided, may result in property damage.
- **RISK OF UNSAFE OPERATION.** When using tools or equipment, basic safety precautions should always be followed to reduce the risk of personal injury. Improper operation, maintenance or modification of tools or equipment could result in serious injury and property damage. There are certain applications for which tools and equipment are designed. Simply Auto strongly recommends that this product NOT be modified and/or used for any application other than for which it was designed. Read and understand all warning and operating instructions before using any tool or equipment.
- This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved. Children shall not play with the appliance. Cleaning and user maintenance shall not be made by children without supervision.
- If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.
- The connection to the supply mains is to be in accordance with the national wiring rules, (battery chargers for installation in caravans and similar vehicles)
- The battery terminal not connected to the chassis has to be connected first. The other connection is to be made to the chassis, remote from the battery and fuel line. The battery charger is then to be connected to the supply mains.
- 8.After charging, disconnect the battery charger from the supply mains. Then remove the chassis connection and then the battery connection.
- Do not recharging non-rechargeable batteries.

IMPORTANT SAFETY INSTRUCTION

WARNING-RISK OF EXPLOSIVE GASES

WORKING IN THE VICINITY OF A LEAD-ACID BATTERY IS DANGEROUS. BATTERIES GENERATE EXPLOSIVE GASES DURING NORMAL OPERATION. FOR THIS REASON, IT IS IMPORTANT THAT YOU FOLLOW THESE INSTRUCTIONS EACH TIME YOU USE THE CHARGER.

To reduce the risk of a battery explosion, follow these instructions and those published by the manufacturers of the battery and any equipment you intend to use in the vicinity of the battery. Review the cautionary markings on these productions and on the engine.

WARNING:This product contains chemicals known to cause cancer and birth defects or other reproductive harm. Wash hands after handling. Wash hands after handling. Use the battery charger on 6V/12V AGM/STD/GEL/LION batteries, as used in cars, vans, lorries, tractors, airplanes, motorhomes, etc. This charger is not intended to supply power to low-voltage electrical systems, other than in a motor-starting application.

WARNING: Do not use battery charger with dry cell batteries that are commonly used with home appliances. These batteries may burst and cause injury or damage to property.

- Use only attachments recommended or sold by the battery charger's manufacturer.
 - Use of non-recommended attachments may result in a fire, electric shock, or injury.
 - Locate the battery charger's power cord so it cannot be stepped on, tripped over, or subjected to damage or stress.
 - Do not operate the charger if it has received a sharp blow, been dropped, or otherwise damaged in any way. Take it to a qualified professional for inspection or repair.
 - Do not disassemble the charger. Take it to a qualified professional when service or repair is required.
 - To reduce the risk of electric shock, unplug the charger from the outlet before attempting any maintenance or cleaning.
 - Always charge the battery in a well-ventilated area.
 - Do not set the charger on flammable materials, such as carpeting, upholstery, paper, cardboard, etc.
 - Never smoke or allow sparks or flames in the vicinity of the battery or engine.
- WARNING: RISK OF EXPLOSIVE GAS.**
- Operate the charger as far away from the battery as DC charger cables permit.
 - Do not expose the charger to rain or snow.
 - NEVER charge a frozen battery.
 - NEVER set a battery on top of the charger.
 - NEVER place the charger directly above a battery being charged. Gases from the battery will corrode and damage the charger.
 - NEVER touch the battery clips together when the charger is energized.
 - When disconnecting the battery charger, pull by the plug, not by the cord. Pulling on the cord may cause damage to the cord or plug.
 - Do not operate the charger with damaged cord or plug.
 - NEVER allow battery acid to drop onto the charger.

PERSONAL SAFETY PRECAUTIONS

- Wear complete eye and clothing protection when working near lead-acid batteries. Always have someone nearby for help.
- Have plenty of fresh water, soap and baking soda nearby for use, in case battery acid contacts your eyes, skins, or clothing. Wash immediately with soda and water and seek medical attention.
- If battery acid comes in contact with eyes, flush eyes immediately for a minimum of 10 minutes and get medical attention.
- Neutralize any acid spills thoroughly with baking soda before attempting to cleanup.
- Remove all personal metal items from your body, such as rings, bracelets, necklaces and watches. A battery can produce a short circuit current high enough to weld a ring to metal, causing a severe burn.
- Do not drop a metal tool onto the battery.
- If it is necessary to remove the battery from the vehicle to charge it, always remove the grounded terminal first.

ASSEMBLY INSTRUCTIONS

Remove all cord wraps and uncoil the cables prior to using the battery charger.

This battery charger is for use on a nominal 230 volt circuit .

Preparing to Charge

1. Determine voltage of battery to be maintained by referring to the vehicle manual.
2. If it is necessary to remove battery from vehicle to charge, or to clean terminal, always remove grounded terminal from battery first. Make sure all accessories in the vehicle are off, so as not to cause an arc.
3. Clean battery terminals. Do not allow corrosion to come in contact with eyes.
4. Add distilled water in each cell until battery acid reaches level specified by battery manufacturer. This helps purge excessive gas from cells. Do not overfill. For a battery without cell caps (maintenance free), carefully follow manufacturer's charging instructions.
5. Study all battery manufacturer's specific precautions, such as removing or not removing cell caps while charging, and recommended rates of charge.
6. Remove battery completely from boat/airplane or any confined area before charging. Area around battery should be well ventilated while battery is being charged. Do not operate while an enclosed area.

CAUTION: This battery charger does not detect, diagnose or analyze the condition of the battery. Attempting to charge/maintain a battery with an abnormal condition can further damage the battery. If in doubt, have the battery checked by a qualified professional prior to using this unit.

IMPORTANT: Do not start the vehicle with the charger connected to the AC outlet, or it could result in damage to the charger.

Charger Location

1. Locate battery charger as far away from battery as cables permit.
2. Charge above freezing temperature and below 40 degree Celsius(C) (104 degree Fahrenheit).
3. NEVER place battery charger directly above battery being charged; gases from battery will corrode and damage charger.
4. NEVER allow battery acid to drip on battery charger when reading gravity or filling battery.
5. NEVER operate battery charger in a closed-in area or restrict ventilation in anyway.
6. Marine batteries must be removed and charged on shore. To charge it on board requires equipment specially designed for marine use. This unit is NOT designed for such use.
7. Do not set a battery on top of battery charger.

WARNING: A SPARK NEAR THE BATTERY MAY CAUSE AN EXPLOSION. TO REDUCE RISK OF A SPARK NEAR THE BATTERY: CONNECT AND DISCONNECT DC OUTPUT CLAMPS AND RING TERMINALS ONLY AFTER REMOVING AC CORD FROM ELECTRIC OUTPUT.

Connection Precautions

1. Disconnect AC cord from electric outlet before connecting or disconnecting DC clamps.

Follow these steps when the battery is installed in a vehicle:

1. Position AC and clamp cords away from hood, door, or moving engine parts.
2. Stay clear of fan blades, belts, pulleys, and other parts that can cause injury to persons.
3. Check polarity of battery posts. POSITIVE (POS, P, +) battery post usually has larger diameter than NEGATIVE (NEG, N,-) post.
4. Determine which post of battery is grounded (connected) to the chassis. If NEGATIVE post is grounded to chassis (as in most vehicles), see 5. If POSITIVE post is grounded to the chassis, see 6.
5. For negative-grounded vehicle, connect POSITIVE (RED) clamp from battery charger to POSITIVE (POS, P, +) engine block away from battery. Connect NEGATIVE (BLACK) clamp to vehicle chassis or engine block away from battery. Do not connect clip to carburetor, fuel lines, or sheet-metal body parts. Connect to a heavy gauge metal part of the frame or engine block.
6. For positive-grounded vehicle, connect NEGATIVE (BLACK) clamp from battery charger to NEGATIVE (NEG, N, -) ungrounded post of battery. Connect POSITIVE (RED) clamp to vehicle chassis or engine block away from battery. Do not connect clip to carburetor, fuel lines, or sheet-metal body parts. Connect to a heavy gauge metal part of the frame or engine block.
7. When disconnecting charger, disconnect AC cord, remove clamp from vehicle chassis, and then remove clamp from battery terminal.
8. Do not charge the battery while the engine is operating.

Follow these steps when the battery has been removed from a vehicle:

1. Check polarity of battery posts. Positive (marked POS, P, +) usually has a larger diameter than the Negative battery post (marked NEG, N,-).
 2. Connect the POSITIVE (RED) battery clamp to the POSITIVE battery post (marked POS, P, + or red).
 3. Stand as far back from the battery as possible, and do not face battery when marking final connection.
 4. Carefully connect the NEGATIVE (BLACK) charger clamp to the free end of the battery cable connected to the NEGATIVE terminal.
 5. When disconnecting charger, always do so in reverse sequence of connecting procedure and break first connection while as far away from battery as practical.
- Check unit periodically for wear and tear. Take to a qualified technician for replacement of worn or defective parts immediately.
 - Read and Understand This Instruction Manual Before Using This Unit.

SAVE THESE INSTRUCTIONS

FEATURES:

- Smart Fast Charger: 2A / 8A / 15A / Auto charging rate, fully automatic high frequency charging for all types of 6/12V lead acid batteries, including GEL, AGM and STD. Not only do you choose the charging rate manually, but also the optimal function can automatically select the charge rate best fit for your type of battery.
- Visualized Charging: Design with LCD screen which displays charging voltage/battery capacity/mode,etc. Visualize charging,The battery charger let you know the current charging process more conveniently.

- 7-Step Charging Program: Desulphation, Soft Start, Bulk Charge, Absorption, Battery Test, Recondition and Floating. This allows for optimization of battery power, without overcharging or damaging.
- Multifunction:the charger will provide 25A current output for 60s at most to re-start your car.
- Excellent Winter Charging Mode: Specialized design for charging battery in winter weather conditions to sustain a longer life of battery and to ensure perfect charging.
- Safety Protection: Battery Charger has Over Voltage, Over Heat, Overtime Charging, Short Circuit, and Reverse Polarity Protection to ensure users safety.
- Maintains battery charger in stored vehicles.
- Fully automatic; When the voltage of the battery is above 0.5V, battery charger will automatically power on to charge the battery, and it will automatically power off when battery is fully-charged.
- Built-in circuit protection guards against overcharging or short circuit.
- Automatically check the polarity(requires a minimum of 1.5volts battery voltage).
- Convenient, color-coded clamps for easy, correct installation.
- Charges with high frequency, pure DC current.

Battery Charger and Components



1. LED Display

When charging, LED display reads the codes, to help user to learn charging status or trouble code.

XX.X V

Battery voltage in volt.

XX %

Battery capacity level

REVERSE POLARITY

When clamps connected with battery reversely, LED display will show the code, FAULT indicator light in red.

SHORT-CIRCUIT

When clamps connecting short-circuit, LED display will show the code, FAULT indicator light in red.

WARNING OVERVOLTAGE

When charging batteries over rating voltage, LED display will show the code and stop output.

WARNING OVERHEAT

When charger internal temperature over 125°(257 °F),it will stop output and shows code on LCD display.

ANALYZING BATTERY

After constant charging stage, charger will analyze the battery for 1 min, LED display will show the code.

RECONDITIONING

When battery recovery stage, LED display will show the code. Recovery yellow indicator will light.

DEAD BATTERY

During pulse charging stage, after 10mins, if voltage lower than 8V, LED display will show the code. And after recovery stage, if battery cannot be reconditioned , LED display will show the code.

2. Voltage selector

The default setting is 12V, user can switch to 6V by selector button. And it also provide winter mode.When in cold season, winter mode will help to improve charging efficiency.

3. Amperage selector

User can select right output current for different batteries. There are 3 options: 2A, 8A, 15A.

4.Battery type selector

User can select right battery type for different batteriesThere are4options: STD-including regular lead-acid batteries, AGM, GEL, Li-iron batteries.

5.Fault indicator

When trouble happened during operation,fault indicator will light in red and showed with code on LED display.

6.Recovery indicator

When recovery stage,indicator will light in yellow

7.Charge indicator

Duringcharging,indicator will light and flash. After fully charged,indicator will keep solid green.

8.Start Aid

If battery requires current to start battery this model can provide 25A output for jumping start, for 60s at most. The button indicator will light in red. And LED screen displays JUMP STARTING code. Please wait for 30s after each 'START AID'

CHARGING INSTRUCTION

IMPORTANT: ALWAYS disconnect the AC power cord from AC power outlet before connecting (or disconnecting) the charger to (or from) the battery.

Connecting the Charger and Charging the Battery with Battery Clamps

The charger's output leads have color-coded battery clamps (RED-POSITIVE and BLACK-NEGATIVE).

1. Unplug the battery charger AC cord from the AC outlet.
 2. Disconnect the battery clamps from the unit at output and cord connector
 3. Plug the AC cord into the AC outlet (230V- 50/60 Hz). Connect the battery charger to the mains power(230V AC): Connecting 230V AC power supply, the LED display will show **BBB** in a loop. If the output is in a short-circuit situation, the LED will indicate trouble code, please solve the problem.
 4. Press the battery selection and current selection to proper setting. Start the charging: Connect AC plug to 230V power correctly, Select charging voltage 6V or 12V battery (If you are not sure the battery type please read the batteries rating label first). Then connect both of clamps with battery terminals, turn on the power switch and began charging, final select appropriate current
 5. Connect the RED POSITIVRE clamp to the POSITIVE post of the battery.
 6. Connect the BLACK NEGATIVE clamp to the NEGATIVE post of the battery. (Note: if reversely connect or short circuit, the "FAULT" indicator lit, and screen indicates "REVERSE POLARITY" alternatively.)
 7. Then the charger will charging the battery automatically.
 8. Leave the unit on.
 9. Monitor the battery from time to time.
- Disconnecting the battery charger from your vehicle battery: When the battery is fully charged and ready for use, the LED will indicate and the charger will output at a constant safe voltage at 7.2V(+0.25V) for 6V batteries or 14.3V(±0.25V) for 12V batteries.

WARNING: During troubleshooting, if there is a need to connect/disconnect the unit from battery, follow the steps outlined in ,Important Safety Instructions" at the front of this manual and the warning K To reduce risk of a spark near the battery".

Power On/Off	Problem	Reason	Possible solutions
Power Off & Battery Connected	Screen indicates "BBB" alternatively	Unit not charging, the battery is not connected	<ul style="list-style-type: none"> • Check that the charger is properly connected to a live AC Outlet. • Check that the correct battery selection setting has been selected for the battery being charged. • Check that the correct current selection setting has been selected • If the current under charging state has fallen below 0.5A, the charger will not charge the unit automatically. • Make sure output connections are secured. • Check correct polarity connections.
Power On & Battery Connected	The charging indicator lits all the time	The battery is being fully charged	Keep it away from being charged
	The restoring indicator lits with yellow LED light all the time ,and and Screen indicates "RECONDITIONING" alternatively	The battery is being restored	Keep it being restored within 4 four hours and if the voltage remain unchanged,then the battery is a dead one.
	"FAULT" indicator lit,and Screen indicates"REVERSE POLARITY" alternatively	Battery reversed connection	Reversed the connection
	"FAULT" indicator lit,and Screen indicates "SHORT CIRCUIT" alternatively	The clamps are suffering the short-circuit situation	Re-connect the clamps carefully
	"FAULT" indicator lit,and Screen indicates"WARN-ING OVERHEAT" alternatively	Over-heated	Disconnect the battery charger to let it cool down
	"FAULT" indicator lit,and Screen indicates "DEAD BATTERY"	Dead battery	The battery is bad and needs replacing
	Start Aid indicator lit with green light,and Screen indicates "START AID" alternatively	Start aid mode is working	It will last for 60s at most and then please turn it off

BATTERY CONNECTION

If the charger does not connected properly, charging will not start, Make sure the charger is connected to the battery and the connection points are clean and making a good connection or make sure no reverse connections at the battery.

CHARGING COMPLETION

Charge completion is indicated by the charging status indicator turning on (LED indicator shows fully charged state) . This means that the charger has stopped charging. NOTE: If the battery is not removed, the charger can detect the voltage. When battery voltage is lower than 13.5V, the charger will charge for battery automatically.

MAINTAINING A BATTERY

The unit maintains 12V batteries, keeping them at fully charged. It can charge small batteries and maintain both small and large batteries. If you are maintaining a fully charged large battery, you are properly utilizing the battery charger. However, if you use this battery charger to charge a large battery, such as a marine deep-cycle battery, that was not fully charged, you may lose some of the battery's capacity. Therefore, we do not recommend charging a large battery with this unit.

NOTE: The maintain mode technology utilized in this charger allows you to safely charge and maintain a healthy battery for exhausted periods of time. However, problems with the battery, electrical problems in the vehicle, improper connections or other unanticipated conditions could cause excessive current draws. As such, occasionally monitoring your battery and the charging process is recommended.

MAINTENANCE AND CARE

A minimal amount of care can keep your battery charger working properly for years.

- Clean the clamps each time you are finished charging. Wipe off any battery fluid that may have come in contact with the clamps, to prevent corrosion.
- Occasionally cleaning the case of the charger with a soft cloth will keep the finish shiny and help prevent corrosion.
- Coil the input and output cords neatly when storing the charger. This will help prevent accidental damage to the cords and charger.
- Store the charger unplugged from AC power outlet, in an upright position.
- Store inside, in a cool, dry place. Do not store the clamps clipped together, on or around metal, or clipped to the cables.

WARNING

1. It only can be used for 6/12V rechargeable AGM/STD/GEL/LION batteries.
2. The product should not be used under the water.
3. Ensure enough power supplying for the battery charger.
4. Never charging damaged battery in case of destroying battery charger.
5. To prevent potential danger, the battery charger should be away from heat object and explosive gas during operation.
6. Do not change charger line or plug in order to avoid electric shock.
7. To prevent the battery charger from damage, the product should be away from children and animals.
8. The battery charged needs to be checked to verify the input current beyond standard output of charger.

9. Never charging on the condition that contains flammable and explosive gases.
10. Do not come close to the battery during charging.
11. The battery should be placed in ventilated well area.
12. The product should not be operated by children, those who have psychiatric disorders and lack of experience, except that is supervised and instructed by supervisor.
13. Do not dismantle or repair privately if the charger damaged, bring it to certified service center to repair.

SPECIAL NOTICE:

If the battery's low voltage result in battery charging failure cause of instant complete release, the battery need put aside for 1 hour until the battery voltage recover at proper range

SPECIFICATIONS PARAMETERS

- Input power supply: AC 230V 50/60Hz
- Maximum input power: 400W
- Output voltage: DC6V 2A, 12V 2A/8A/15A - Battery charger, 12V 25A-Starter
- Battery Type: 6V/12V Lead-acid Battery
- Maximum output current: 25A
- Max.Capacity: 200AH
- Output Display: LED

WARNING:The charger is NOT suitable for lithium cobalt battery!

Meaning of crossed-out wheellie dustbin icon:

- Do not dispose of electrical appliances as unsorted municipal waste, use separate collection facilities
- Contact your local government for information regarding the collection systems available.
- If electrical appliances are disposed of in landfills or dumpshazardous substances can leak into the groundwater and get into the food chain, damaging your health and well-being
- When replacing old appliances with new ones, the retailer is legally obligated to take back your old appliance for disposals at least free of charge.



Recycling: This marking indicates that this product should not be disposed with other household wastes throughout the EU. To prevent possible harm to the environment or human health from uncontrolled waste disposal, recycle it responsibly to promote the sustainable reuse of material resources. To return your used device, please use the return and collection systems or contact the retailer where the product was purchased. They can take this product for environmental safe recycling.



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