TOPEX

SKU:TXBC10A460-10A

TX460-10A

OWNER'S MANUAL

10A INTELLIGENT BATTERY CHARGER

Thank you for buying this **10A INTELLIGENT BATTERY CHARGER!**
Please read this manual carefully before using the product.

WWW.TOPEXTOOLS.COM.AU

version 20250311

DESCRIPTION OF SYMBOLS

V	Volts	Hz	Hertz
~	Alternating current	W	Watts
A	Amperes	mAh	Milliampere Hours
Ah	Amp Hour	⚠	Warning
	Regulatory Compliance Mark (RCM)	⧈	Double Insulated
IP65	Ingress protection from dust & water	3.15 A	Fuse value on PCB
	Indoor Use Only		Chassis or Frame Ground
	Read Instruction Manual		

PACKING INCLUDE

X1

X1

X1

GENERAL SAFETY WARNINGS

SAFETY INFORMATION

The following safety information is provided as guidelines to help you operate your new battery charger under the safest possible conditions. Any equipment that uses electrical power can be potentially dangerous to use when safety or safe handling instructions are not known or not followed. The following safety information is provided to give the user the information necessary for safe use and operation.

A procedure step preceded by WARNING is an indication that the next step contains a procedure that might be injurious to a person if proper safety precautions are not heeded.

A procedure preceded by a CAUTION is an indication that the next step contains a procedure that might damage the equipment being used.

A **NOTE** may be used before or after a procedure step to highlight or explain something in that step.

SHOCK HAZARDS

1. This battery charger is intended for indoor use only. Do not expose the charger to rain or snow.
2. NEVER attempt to charge a marine (boat) battery while the boat is on or near the water. A boat must be on a trailer and located indoors before attempting to charge its battery(s). The boat manufacturer's battery charging instructions must be followed exactly.
3. NEVER set the charger, output cable or clamps, or ac power cord plug in water or on wet surfaces.
4. NEVER use this charger on a pier or dock. Charger could fall in water, creating an electric shock hazard.
5. NEVER attempt to plug in or operate the battery charger with defective or damaged wires, power cord, or power cord plug. Have any of these parts that are defective or damaged replaced by qualified personnel IMMEDIATELY.
6. NEVER attempt to plug in the charger or operate its controls with wet hands or while standing in water.
7. NEVER alter the ac power cord or power cord plug provided with the battery charger.
8. NEVER use an attachment not recommended or sold by the battery charger manufacturer for use with this specific model battery charger.

9. NEVER operate this battery charger if it has received a sharp blow, been dropped, or similarly damaged, until after being inspected and/or repaired by qualified service personnel.

10. NEVER disassemble this battery charger. Take the battery charger to qualified service personnel when service or repair is needed.

11. ALWAYS plug in and unplug the ac power cord by grasping the power cord plug, NOT THE POWER CORD, to reduce risk of damaging power cord.

12. ALWAYS remove personal metal items such as rings, bracelets, and watches when working with a lead-acid battery. A lead-acid battery can produce a short circuit current high enough to weld a ring or any jewellery to metal, causing a severe burn.

13. ALWAYS unplug the battery charger from the ac outlet before attempting any cleaning or maintenance. Turning the charger's control(s) OFF, alone, will not remove all electricity from the charger.

14. An extension cord should not be used unless absolutely necessary. Use of an improper extension cord could result in a fire or electric shock. If an extension cord must be used, make sure that:

a. the pins on the plug of the extension cord are the same number, size, and shape as those of the plug on the charger,

b. the extension cord is properly wired and in good electrical condition, and

c. the wire size is large enough for the length of cord as specified in the following chart:

Length in feet:	25	50	100	150
cord AWG size:	18	18	16	14

EXPLOSIVE GAS HAZARDS

1. Working in the vicinity of a lead-acid battery is dangerous. Batteries generate explosive gasses during normal operations and, at an even higher level, during charging. If anything is allowed to ignite these gasses, the battery may explode, sending pieces of the battery and extremely caustic battery acid out in all directions and with extreme force. Since just the slightest spark is sufficient to ignite these gasses, it is of UTMOST IMPORTANCE that you read this manual and follow the instructions exactly, before using your battery charger each time.

2. NEVER operate this battery charger near any fuel tanks or gas cylinders. This charger can produce sparks that could ignite gasses and cause an explosion.

3. NEVER attempt to permanently mount this battery charger on a marine or recreational vehicle.

4. NEVER attempt to connect this charger's output cables directly to the battery(s) in the bilge or engine compartment of a boat. Follow the boat manufacturer's battery charging instructions exactly.

BATTERY EXPLOSION HAZARDS

1. To reduce the risk of battery explosion, read, understand, and follow these instructions, those published by the battery manufacturer, and those of the manufacturer of any equipment you intend to use near the battery. Review cautionary markings on these products and on the engine. If unable to determine the battery manufacturer's requirements for charging, always charge the battery with the cell caps in place. In addition, make certain that anyone else that uses this equipment, or is a bystander in the vicinity of a charging battery, understands and follows these safety instructions as well.

2. NEVER smoke or allow a spark or flame in the vicinity of the battery or engine.

3. NEVER operate the battery charger in a closed-in area or restrict ventilation in any way.

4. NEVER charge a frozen battery as battery explosion can result.

5. NEVER connect BOTH battery charger clamps DIRECTLY to the two posts of the same battery. See OPERATION INSTRUCTIONS for connection procedures.

6. NEVER charge batteries other than a LEAD-ACID type. Especially, DO NOT use for charging dry-cell batteries or non-rechargeable batteries that are commonly used with toys and home appliances. These batteries may burst and cause injury to persons or damage property.

7. NEVER allow the dc output clamps to touch each other.

8. ALWAYS be extra cautious to reduce the risk of dropping a metal object, such as a tool, onto or near the battery. Doing so could produce a spark or short circuit the battery or other electrical part that could cause an explosion.

9. ALWAYS make sure the area around a battery is well ventilated while it is being charged. Gas can be forcefully blown away by using a piece of cardboard or other non-metallic material as a fan.

10. ALWAYS make sure that the ac power cord is unplugged from the ac outlet or extension cord BEFORE connecting or disconnecting the battery charger clamps, to prevent arcing or burning.

11. ALWAYS locate the battery charger as far away from the battery as the dc output cables will permit.

12. ALWAYS twist or rock charger clamps back and forth several times on the battery post and the other point of connection at the time of initial connection. This helps keep the clamps from slipping off their points of connection, which helps reduce the risk of sparking. DO NOT rock the clamp connected to the battery post AFTER the second connection (at a point away from the battery) is made, or sparking may occur at the battery post.

13. ALWAYS check the cable and wire connections at the battery(s) for tightness - BEFORE STARTING TO CHARGE. A loose connection can cause sparks or excessive heating, which could cause a battery explosion.

14. ALWAYS make sure the battery compartment is open and well ventilated before charging.

FIRE HAZARDS

1. NEVER use an attachment not recommended or sold by the battery charger manufacturer for use with your specific model charger.

2. NEVER disassemble the battery charger; take it to qualified service personnel when service or repair is needed.

3. ALWAYS make sure that the ac power cord is unplugged from the ac outlet or extension cord, BEFORE connecting or disconnecting the battery charger clamps, to prevent arcing or burning.

BATTERY ACID HAZARDS

1. ALWAYS have someone within range of your voice and close enough to quickly come to your aid when working near a lead-acid battery.

2. ALWAYS have plenty of fresh water and soap nearby in case battery acid contacts eyes, skin, or clothing.

3. ALWAYS wear complete eye and clothing protection and avoid touching eyes while working with a battery.

4. ALWAYS act QUICKLY if contact with battery acid is made. If acid contacts skin or clothing, wash IMMEDIATELY with soap and water.
If acid enters the eye, IMMEDIATELY flood the eye with running cold water for at least 10 minutes. Get medical attention IMMEDIATELY.

MOVING PARTS HAZARDS

1. NEVER connect the battery charger clamps to a vehicle when the engine is running.

2. ALWAYS stay clear of fan blades, fan belts, pulleys and other moving engine parts when working near an engine. Moving engine parts can cause severe personal injury including dismemberment.

3. ALWAYS make sure that the battery charger cables and clamps are positioned so they will not come in contact with any moving engine parts.

BURN HAZARDS

1. NEVER lean on or rest against the engine or cooling system parts when the vehicle is running.

2. ALWAYS stay clear of the cooling system, engine, and engine manifold. These engine components get very hot and retain heat for a long time. Touching any of these components can cause severe burns.

CAR BATTERY CHARGER SAFETY WARNINGS

IMPORTANT SAFETY INSTRUCTIONS

Please save these instructions. This manual contains important safety and operating instructions. Read all instructions and follow them with each use of this product.

1. **SAVE THESE INSTRUCTIONS.** This manual contains important safety and operating instructions. You may need to refer to these instructions at a later date.
2. This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.
3. Children should be supervised to ensure that they do not play with the appliance.
4. 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.

5. After charging, disconnect the battery charger from the supply mains. Then remove the chassis connection and then the battery connection.
6. **CAUTION.** To reduce risk of injury, charge lead-acid wet cell, gel or AGM automotive type rechargeable batteries. Other types of batteries may burst causing personal injury and property damage.
7. Do not expose charger to rain or snow.
8. Use of an attachment not recommended or sold by the battery charger manufacturer may result in a risk of fire, electric shock, or injury to persons.
9. To reduce risk of damage to electric plug and cord, pull by plug rather than cord when disconnecting charger.
10. Make sure cord is located so that it will not be stepped on, tripped over, or otherwise subjected to damage or stress.
11. An extension cord should not be used unless absolutely necessary. Use of improper extension cord could result in a risk of fire and electric shock. If an extension cord must be used, make sure:
a. The pins on the plug of the extension cord are the same number, size and shape as those of the plug on the charger;
b. That extension cord is properly wired and in good electrical condition;
12. Do not operate charger with damaged cord or plug, replace the cord or plug immediately.
13. Do not operate charger if it has received a sharp blow, been dropped, or otherwise damaged in any way; take it to a qualified serviceman.
14. Do not disassemble charger; take it to a qualified serviceman when service or repair is required. Incorrect reassembly may result in a risk of electric shock or fire.
15. To reduce risk of electric shock, unplug charger form outlet before attempting any maintenance or cleaning. Turning off controls will not reduce this risk.
16. WARNING - RISK OF EXPLOSIVE GASES
a. WORKING IN VICINITY OF A LEAD-ACID BATTERY IS DANGEROUS. BATTERIES GENERATE EXPLOSIVE GASES DURING NORMAL BATTERY OPERATION. FOR THIS REASON, IT IS OF UTMOST IMPORTANCE TO READ THIS MANUAL AND FOLLOW THE INSTRUCTIONS EXACTLY EACH TIME BEFORE USING CHARGER.
b. To reduce risk of battery explosion, follow these instructions and those published by battery manufacturer and manufacturer of any equipment you intend to use in vicinity of battery. Review cautionary marking on these products and on engine.
17. Prohibit 12V STD, 12V AGM/C, 12V M, 12V LFP, Recond, SUPPLY and other charging modes to charge 6V lead-acid batteries or any lithium batteries;
18. 12V LFP mode is only suitable for 12V lithium iron phosphate battery, not for other lithium batteries, it is forbidden to charge other lithium batteries;
19. For lead-acid batteries with a battery voltage of less than 3V for a long time, it is recommended to replace the battery if the voltage cannot be increased using this charger;
20. For the battery that displays BAD on the screen, it is recommended to replace the battery;

PERSONAL SAFETY PRECAUTIONS

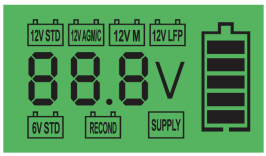
1. Someone should be within range of your voice or close enough to come to your aid when you work near a lead-acid battery.
2. Have plenty of fresh water and soap nearby in case battery acid contacts skin, clothing, or eyes.
3. Wear complete eye protection, and clothing protection. Avoid touching eyes while working near battery.
4. If battery acid contacts skin or clothing, wash immediately with soap and water. If acid enter eye, immediately flood eye with running cold water for at least 10 minutes and get medical attention immediately.
5. NEVER smoke or allow a spark or flame in vicinity of battery or engine.
6. Be extra cautious to reduce risk of dropping a metal tool onto battery. It might spark or short circuit battery or other electrical part that may cause explosion.
7. Remove personal metal items such as rings, bracelets, necklaces, and watches when working with a lead-acid battery. A lead-acid battery can produce a short circuit current high enough to weld a ring or the like to metal, causing a severe burn.
8. Use the charger for charging Lead acid, Gel, Calcium, AGM and EFB batteries. It is not intended to supply power to a low voltage electrical system other than in a starter motor application. Do not use battery charger for charging dry-cell batteries that are commonly used with home appliances. These batteries may burst and cause injury to persons and damage to property.
9. NEVER charge a frozen battery.

PRODUCT OVERVIEW & SPECIFICATIONS

1. Mode Selection Button

Press" Mode" Button to select among the 4 normal charging modes (12V STD, 12V AGM/C, 12V M, 12V LFP)
Press" Mode" Button to select between the 2 Additional function(: 6V STD, Recond, SUPPLY) Long press “Mode” button for 5 seconds –> switch between Normal to Additional function.
Normal: 12V STD, 12V AGM/C, 12V M, 12V LFP
Additional function: 6V STD, Recond, SUPPLY

2. LCD Display



A- 12V STD, Up to 14.5V, charging a 12V standard lead-acid battery.
B- 12V AGM/C Up to 14.8V, charging a 12V AGM battery or charging in winter mode with an ambient temperature of – 20°C to +5°
C- 12V M, Up to 14.4V, charging a 12V battery for Maintenance purpose
D- 12V LFP, Up to 14.6 V, charging a 12V LifePO4 battery
E- Battery voltage indicator, [faulty battery (BAD) / fully charged (FUL) / connected with reverse polarity or short-circuit at the clamps (Err)]
F- 6VSTD, Up to 7.5V, suitable for charging 6Vsmall batteries
G- Recond up to 16.5V, charging a 12V deeply discharged battery.
H- SUPPLY Mode, work as a 12V Power supply
K- Charging Indicator, Indicate the charging process, each bar represents approximately 20%.

3. Inlet Power Cable with Plug
4. Battery Terminal Negative(Black) Clamp
5. Battery Terminal Positive(Red) Clamp
6. Outlet Power Cable
7. Cigarette Adaptor(for BAG02-Z10.0A-P1)

SPECIFICATIONS

Operating Voltage	220-240V 50/60Hz
Max Input Power	160W
Charging Current	12VSTD/AGM/C Max.: 10A 12V M Charging Program: 2A 12V LFP Charging Program Max.: 10A 6V STD Charging Program: 2A SUPPLY Function Output Max.: 10A "RECOND" Charging Program: 16.5 V DC / 2.5A Battery Charge Capacity: 4-200Ah
Protection Class	IP65
Ambient Temperature	- 20°C ~ 40°C

SETUP & PREPARATION

OPERATING INSTRUCTIONS

INTENDED USE

The product is designed to charge and maintain 6V/12V lead-acid batteries. The charger has been optimized to maintain the battery of your motorcycle or car when it is not being used over longer periods of time, for example over the winter. The charger is designed to charge 12V LiFePO4, Gel, AGM and standard lead-acid batteries. Any use other than that described above will damage this product and involves the risk of short circuits, fire, electric shock, etc.

PREPARING TO CHARGE

1. If necessary to remove battery from vehicle to charge, always remove grounded terminal from battery first. Make sure all accessories in the vehicle are off, so as not to cause an arc.
2. Be sure area around battery is well ventilated while battery is being charged.
3. Clean battery terminals. Be careful to keep corrosion from coming in contact with eyes.
4. Add distilled water in each cell until battery acid reaches level specified by battery manufacturer. Do not overfill. For a battery without removable cell caps, such as valve regulated lead acid batteries, carefully follow manufacturer’s recharging instruction.
5. Study all battery manufacturer’s specific precautions while charging and recommended rates of charge.
6. Determine voltage of battery by referring to the vehicle’s manual and make sure the output voltage mode is correct.

CONNECTION

To avoid sparks which could cause an explosion, the mains supply should always be disconnected before making or breaking battery connections. Connect the battery clips or ring terminals to the battery in the following order:
1) Connect the positive charging lead (RED) to the positive post of the battery (marked + / +ve or P).
2) For vehicles with the battery still installed:
Connect the negative charging lead (BLACK) to the vehicle chassis (marked - / -ve or N), well away from the battery, fuel line, and hot or moving parts. For batteries removed from the vehicle: Connect the negative charging lead (BLACK) to the negative post of the battery (marked - / -ve or N). After connecting the clips, rotate them slightly so as to remove any dirt or oxidization, thus ensuring a good contact.

CHARGING

1. First, make sure your battery is a 6V or 12V battery. Do not charge batteries with different operating voltages!
2. Connect the battery charger to the power supply (240V ~50 Hz).
3. Select the appropriate charging mode for your batteries with the "Mode" button.

Refer to Product Overview for a description of the individual operating modes.

4. Then, connect the battery charger to the battery with the correct polarity. If connected with reverse polarity or short-circuit at the clamps "Err" will be lit.
5. This battery charger is equipped with an automatic memory function, i.e. whenever AC supply is connected, it starts in last selected mode.
6. After the charging process, disconnect the battery charger from the mains supply. First remove the clamp from the negative terminal and then from the positive terminal.

SAFETY FEATURES

This battery charger is fitted with the following safety features:
Short circuit Protection
Overload Protection
Reverse Polarity Protection
Overcharging Protection
Over-temperature Protection

CHARGING TIME

A partially charged battery will take less time to charge than a fully discharged battery. The approximate charging time for a battery can be calculated using the following equation:

$$\text{Charging time/h} = \frac{\text{Battery capacity in Ah}}{\text{Amp. (charging current)}}$$

E.g.:

Output: 6V 2A		Output: 12V 4A	
Battery Capacity(Ah)	Time(Hours)	Battery Capacity(Ah)	Time(Hours)
6Ah	3H	32Ah	8H
12Ah	6H	48Ah	12H
15Ah	7H	64Ah	16H
21Ah	10H	100Ah	25H
24Ah	12H	128Ah	32H
30Ah	15H	150Ah	37H

MAINTENANCE

CARE OF THE BATTERY

- Ensure that your battery is always fitted securely.
- A perfect connection to the cable network of the electrical system must be ensured at all times.
- Keep the battery clean and dry. Apply a thin coating of grease to the connection terminals using an acid-free, acid-resistant grease (Vaseline).
- Check the level of the acid in batteries that are not maintenance free versions approximately every 4 weeks and top up with distilled water if necessary.

⚠ WARNING

BEFORE CLEANING THE APPLIANCE MAKE SURE THAT IT IS DISCONNECTED FROM THE MAINS POWER SUPPLY.

CLEANING

- We recommend that you clean the device immediately each time you have finished using it.
- Clean the appliance regularly with a damp cloth and some soft soap. Do not use cleaning agents or solvents; these may be aggressive to the plastic parts in the appliance. Ensure that no water can get into the interior of the appliance.

STORAGE

- The battery charger should be placed in a dry room for storage. Any corrosion must be cleaned off the charging terminals.

SUPPLY CORDS

If replacement of the supply cord is necessary, this has to be done by a certified electrician in order to avoid a safety hazard.

WARNING: All other service should be done by qualified personnel only.

CARING FOR THE ENVIRONMENT

Power tools that are no longer usable should not be disposed of with household waste, but in an environmentally friendly way. Please recycle where facilities exist. Check with your local council authority for recycling advice.

Recycling packaging reduces the need for landfill and raw materials. Reuse of recycled material decreases pollution in the environment. Please recycle packaging where facilities exist. Check with your local council authority for recycling advice.

TOPEX®

WARRANTY POLICY

12-Month Standard Warranty

We are committed to ensuring the quality and reliability of our products. All TOPEX items come with a standard 12-month warranty from the date of purchase, covering defects in materials and workmanship.

What Our Warranty Covers

- Material and manufacturing defects under normal use
- Repair or replacement of defective products at our discretion

Exclusions

- Normal wear and tear
- Damage caused by misuse or unauthorized modifications
- Incidental or consequential damages

How to Claim

To make a warranty claim, please scan the QR code below and complete the online form with your proof of purchase and a description of the issue. We may require the product to be returned for inspection.

Warranty Extension

For added peace of mind, you can extend your warranty by an additional year by joining the TOPEX community (batteries and chargers do not apply).

JOIN US