

TOURING ITEMS
TYPES®

10A Battery Charger and Maintainer



WP ITM. AC532575 User Manual

IMPORTANT!

READ THE ENTIRE INSTRUCTION MANUAL CAREFULLY AND MAKE SURE THAT YOU FULLY UNDERSTAND IT BEFORE YOU USE THE EQUIPMENT.

KEEP THE MANUAL FOR FUTURE REFERENCE.

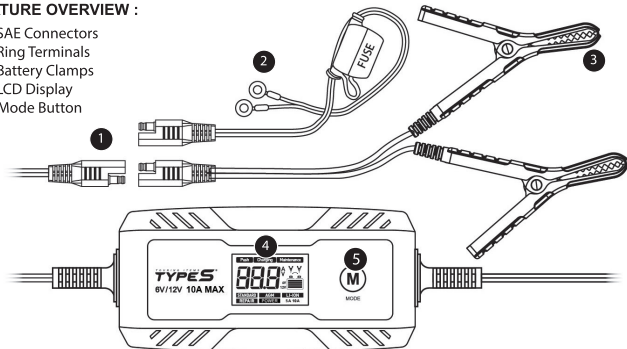
BC

TECHNICAL SPECIFICATIONS:

Input :	100-120VAC, 50-60Hz, 165W
Output :	12.8VDC 10A MAX, 6.4VDC 10A MAX
Charging Voltage:	6VDC, 12VDC
Charging Current:	10A (6VDC), 10A/5A (12VDC)
Reverse Current:	<5mA
Low Voltage Detection:	3.75V (6VDC), 3.75V (12VDC)
Low Voltage Detection: (Push Mode)	0.5V (6VDC), 0.5V (12VDC)
Operating Temperature:	32°F - 104°F / 0°C - 40°C
Storage Temperature:	-4°F - 140°F / -20°C - 60°C
Battery Types:	Standard (Wet Cell / Flooded, SLA & Maintenance Free) AGM, GEL, Lithium-ion (incl. LiFePO ₄)
Fuse:	Ring Terminals include 25A Fuse
Connector Type:	SAE
Battery Capacity:	Up to 300Ah, maintains all battery sizes.
IP Rating:	IP65; Water-resistant
Product Dimensions:	6.5 x 3.5 x 1.9 inch (162.5 x 87.5 x 47.5 mm) (charger only)
Product Weight:	2.7 lb (1227 g)

FEATURE OVERVIEW :

1. SAE Connectors
2. Ring Terminals
3. Battery Clamps
4. LCD Display
5. Mode Button



WARNING:

Please read the entire instruction manual before using the product and then save it for future reference. We reserve the right for any errors in text or images and any necessary changes made to technical data. In the event of technical problems or other queries, please contact our Customer Services (see address details on the back).

- The product may be used by children of 8 years and above and by persons with reduced physical, sensory or mental capability or lack of experience and knowledge provided they have been given supervision or instruction concerning use of the product in a safe way and understand the hazards involved.
- Never let children play with the product.
- Cleaning and user maintenance shall not be made by children without supervision.
- **Warning:** Charging produces explosive gases, make sure that the place where the product is used is free from sparks and naked flames. Make sure that the place where the product is used is well ventilated.
- The product is intended for indoor use only.
- **Warning:** Never try to charge non-rechargeable batteries.
- **Warning:** Keep the product, its mains lead and plug away from water and moisture to avoid the risk of electric shock.
- **If the mains lead is damaged it should only be replaced by a qualified electrician.**
- Ensure that the mains lead is unplugged before connecting a battery to the product.
- The charger is only intended for charging rechargeable Gel and AGM type lead-acid batteries. Charging other types of batteries than these can damage the charger, battery or other property.
- The product is not intended to be used as a power supply unit for other products.
- Never try to charge dry-cell batteries, they can explode and cause damage.
- Do not use the charger if the mains lead is damaged. If the mains lead is damaged it should only be replaced by a qualified electrician.
- The charger should not be used if it is in any way damaged or malfunctioning.
- Do not place the charger close to the battery being charged, the battery will emit fumes which can corrode the charger. Place the charger as far as possible from the battery as the connection cables allow.
- Never try to dismantle, repair or modify the charger in any way.
- Make sure that the Battery Clamps of the charger leads don't touch each other once the charger has been connected to a wall socket.
- Always unplug the charger from the wall socket before disconnecting the charger leads from the battery.
- See that the place where charging takes place is well-ventilated.
- During charging the battery can emit explosive gases. Be careful to ensure that the charger leads don't touch each other when they are being disconnected from the battery after charging.
- Do not smoke in the vicinity of the battery whilst charging is in progress.
- Do not cover the charger.
- The charger should not be used by persons who have not read and understood the contents of this manual.
- A frozen battery must never be charged, always defrost it first.

IMPORTANT SAFETY INSTRUCTIONS SAVE THESE INSTRUCTIONS

- This manual contains important safety and operating instructions for battery charger Models AC532575.
- 1. Do not expose charger to rain or snow.
- 2. 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.
- 3. To reduce risk of damage to electric plug and cord, pull by plug rather than cord when disconnecting charger.
- 4. An extension cord should not be used. Use of improper extension cord could result in a risk of fire and electric shock.
- 5. Do not operate charger with damaged cord or plug – replace the cord or plug immediately.
- 6. 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.
- 7. 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.
- 8. To reduce risk of electric shock, unplug charger from outlet before attempting any maintenance or cleaning. Turning off controls will not reduce this risk.

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 THAT YOU FOLLOW THE INSTRUCTIONS EACH TIME YOU USE THE 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.

PERSONAL PRECAUTIONS

- a) Consider having someone close enough by to come to your aid when you work near a lead-acid battery.
- b) Have plenty of fresh water and soap nearby in case battery acid contacts skin, clothing, or eyes.
- c) Wear complete eye protection and clothing protection. Avoid touching eyes while working near battery.

- d) If battery acid contacts skin or clothing, wash immediately with soap and water. If acid enters eye, immediately flood eye with running cold water for at least 10 minutes and get medical attention immediately.
- e) NEVER smoke or allow a spark or flame in vicinity of battery or engine.
- f) 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.
- g) 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.
- h) 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.
- i) NEVER charge a frozen battery.

PREPARING TO CHARGE

- a) 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.
- b) Be sure area around battery is well ventilated while battery is being charged.
- c) Clean battery terminals. Be careful to keep corrosion from coming in contact with eyes.
- d) Add distilled water in each Standard wet 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 instructions.
- e) Study all battery manufacturer's specific precautions while charging and recommended rates of charge.
- f) Determine voltage of battery by referring to car owner's manual and make sure that output voltage selector switch is set at correct voltage. If charger has adjustable charge rate, charge battery initially at lowest rate.

CHARGER LOCATION

- a) Locate charger as far away from battery as dc cables permit.
- b) Never place charger directly above battery being charged; gases from battery will corrode and damage charger.
- c) Never allow battery acid to drip on charger when reading electrolyte specific gravity or filling battery.
- d) Do not operate charger in a closed-in area or restrict ventilation in any way.
- e) Do not set a battery on top of charger.

DC CONNECTION PRECAUTIONS

- a) Connect and disconnect dc output Battery Clamps only after setting any charger switches to “off” position and removing ac cord from electric outlet. Never allow Battery Clamps to touch each other.
- b) Attach Battery Clamps to battery and chassis as indicated.

FOLLOW THESE STEPS WHEN BATTERY IS INSTALLED IN VEHICLE. A SPARK NEAR BATTERY MAY CAUSE BATTERY EXPLOSION. TO REDUCE RISK OF A SPARK NEAR BATTERY:

- a) Position ac and dc cords to reduce risk of damage by hood, door, or moving engine part.
- b) Stay clear of fan blades, belts, pulleys, and other parts that can cause injury to persons.
- c) Check polarity of battery posts. POSITIVE (POS, P, +) battery post usually has larger diameter than NEGATIVE (NEG, N, -) post.
- d) Determine which post of battery is grounded (connected) to the chassis. If negative post is grounded to chassis (as in most vehicles), see (e). If positive post is grounded to the chassis, see (f).
- e) For negative-grounded vehicle, connect POSITIVE (RED) Battery Clamp from battery charger to POSITIVE (POS, P, +) ungrounded post of battery. Connect NEGATIVE (BLACK) Battery Clamp to vehicle chassis or engine block away from battery. Do not connect Battery Clamp to carburetor, fuel lines, or sheet-metal body parts. Connect to a heavy gage metal part of the frame or engine block.
- f) For positive-grounded vehicle, connect NEGATIVE (BLACK) Battery Clamp from battery charger to NEGATIVE (NEG, N, -) ungrounded post of battery. Connect POSITIVE (RED) Battery Clamp to vehicle chassis or engine block away from battery. Do not connect Battery Clamp to carburetor, fuel lines, or sheet-metal body parts. Connect to a heavy gage metal part of the frame or engine block.
- g) When disconnecting charger, turn switches to off, disconnect AC cord, remove Battery Clamp from vehicle chassis, and then remove Battery Clamp from battery terminal.
- h) See operating instructions for length of charge information.

FOLLOW THESE STEPS WHEN BATTERY IS OUTSIDE VEHICLE. A SPARK NEAR THE BATTERY MAY CAUSE BATTERY EXPLOSION. TO REDUCE RISK OF A SPARK NEAR BATTERY:

- a) Check polarity of battery posts. POSITIVE (POS, P, +) battery post usually has a larger diameter than NEGATIVE (NEG, N, -) post

- b) Attach at least a 24-inch-long 6-gauge (AWG) insulated battery cable to NEGATIVE (NEG, N, -) battery post.
- c) Connect POSITIVE (RED) charger Battery Clamp to POSITIVE (POS, P, +) post of battery.
- d) Position yourself and free end of cable as far away from battery as possible – then connect NEGATIVE (BLACK) charger Battery Clamp to free end of cable.
- e) Do not face battery when making final connection.
- f) When disconnecting charger, always do so in reverse sequence of connecting procedure and break first connection while as far away from battery as practical.
- g) A marine (boat) battery must be removed and charged on shore. To charge it on board requires equipment specially designed for marine use.

CARE AND MAINTENANCE:

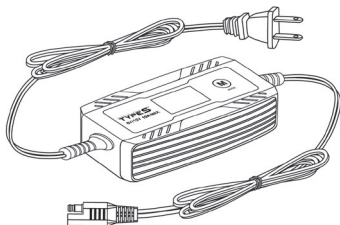
Cleaning

Unplug the charger before cleaning it with a damp cloth. Use only mild cleaning agents, no solvents or corrosive chemicals.

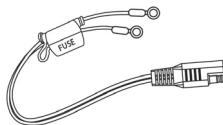
Storage

If the charger is not to be used for an extended period, it should be unplugged and stored in a dry and dust-free location and out of reach of children.

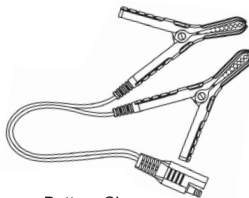
PACKAGE CONTENTS:



Battery Charger and Maintainer



Ring Terminals

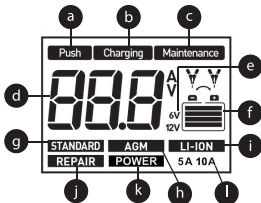


Battery Clamps

OPERATING INSTRUCTIONS:

Note: Please read the vehicle's Owner's Manual before charging its battery or removing any of its battery leads. Check if there are any recommendations for charging the battery of your vehicle.

LCD Display Guide



- a Push Mode:** Charges batteries with voltage between 0.5V and 3.75V.
- b Charging Mode:** Charging current, battery voltage, and capacity will be displayed.

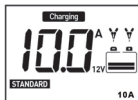
- c Maintenance Mode:** When vehicle battery is fully charged, the Battery Charger & Maintainer enters Maintenance Mode, releasing 0.3A charging current.
- d Amp (A) or Voltage (V) Indicator**
- e Vehicle Battery Detection:** 6V or 12V battery will be automatically detected.
- f Vehicle Battery Capacity (25% / 50% / 75% / 100%)**
- g Battery Type:** Standard (Wet Cell / Flooded, SLA & Maintenance Free)
- h Battery Type:** AGM / GEL
- i Battery Type:** Lithium-ion (incl. LiFePO₄)
- j Repair Mode:** For 12V LEAD ACID BATTERIES ONLY. Recovers, repairs, and restores damaged, stratified, and sulfated batteries.
- k 12V Supply Mode:** Works as a 12V DC power supply for powering 12V devices or as a memory retainer when replacing a battery.
- l Charging Current:** 5A or 10A

CHARGING STATUS

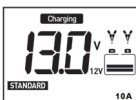
While charging vehicle battery, the LCD Display will show the charging status. Please see example below for 12V & 6V battery:

Charging amps (A) and battery voltage (V) will alternate every 5 seconds.

i) Charging Current :

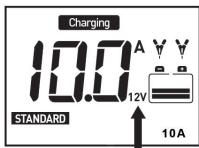


ii) Battery Voltage :

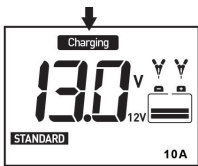


OPERATING INSTRUCTIONS CONT.:

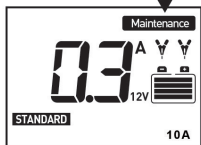
iii) 12V Battery Connected :



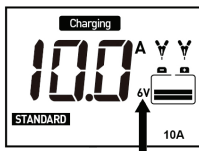
iv) Charging in Process :



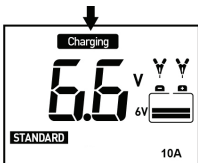
v) 12V Battery Fully Charged; Maintenance Mode in Progress (0.3A):



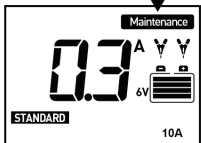
vi) 6V Battery Connected :



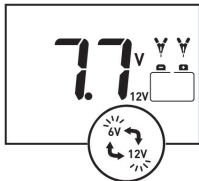
vii) Charging in Process :



viii) 6V Battery Fully Charged, Maintenance Mode in Progress (0.3A) :



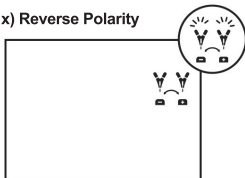
ix) Test Mode



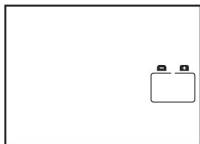
If 6V or 12V flashes alternatively it means that the connected battery is either a discharged 12V battery (down to roughly 7.6-10.5V) or a fully charged 6V battery. The charger is trying to determine which kind of battery has been connected. After 1-2 minutes the charger will determine whether the battery is a 6V or 12V battery and it will either perform a maintenance charge for a 6V battery or start charging for a 12V battery.

NOTE: If you are sure the connected battery is a 12V battery, press and hold (M) for 3 seconds to change to 12V Charging Mode.

x) Reverse Polarity



xi) Low Battery Voltage



OPERATING INSTRUCTIONS CONT.:

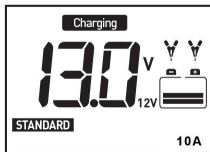
AUTOMATIC CHARGING

1. Clean the battery terminals if necessary, always wear safety glasses to protect your eyes.
2. Verify the voltage and type of battery.
3. Connect the **RED** Clamp / ring terminal to the POSITIVE (+) post of the battery terminal. The POSITIVE battery post will be marked with a PLUS (+) sign. There may also be a **RED** plastic protective cover over the positive battery post.

Connect the **BLACK** Clamp / ring terminal to the NEGATIVE (-) post of the battery terminal. The NEGATIVE battery post will be marked with a MINUS (-) sign. There may be a **BLACK** plastic protective cover over the negative battery post.

NOTE: When charging a battery that is mounted on a vehicle, the cables should be attached in the following order:

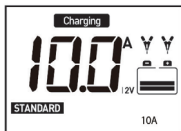
- Connect the **RED** lead to the POSITIVE (+) terminal of the battery.
 - Connect the **BLACK** lead to a metal part of the vehicle chassis. Choose a spot on the chassis that is some distance away from the battery itself and any fuel lines.
4. Connect the AC power plug of battery charger into a wall socket. Battery voltage is auto-detected and charging will be started automatically. To manually select voltage, press and hold **(M)** for 3 seconds.



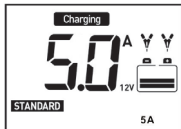
NOTE: If a 12V battery with voltage about 3.5-7.6V is connected, the charger will start in 6V Charging Mode. Press and hold **(M)** for 3 seconds to change to 12V Charging Mode.

OPERATING INSTRUCTIONS CONT.:

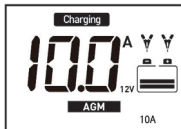
5. While you are in 12V Charging Mode, press **(M)** once to cycle through the following charge modes.



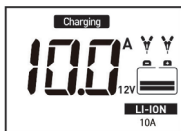
- i) 12V **10A Mode** is designed for batteries with capacities 15-300Ah being charged under normal weather conditions.



- ii) 12V **5A Mode** is designed for batteries with capacities 15-120Ah

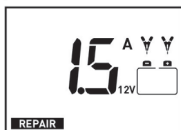


- iii) 12V **10A AGM Mode** is designed for AGM / GEL batteries or batteries with capacities 15-300Ah being charged at low temperatures.

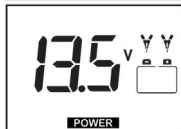


- iv) 12V **10A Li-ion Mode** is designed for 12V Lithium batteries, including Lithium Iron Phosphate batteries.

PLEASE ENSURE THIS MODE IS SELECTED FOR 12V LITHIUM BATTERIES ONLY.

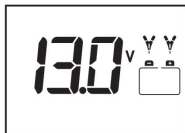


- v) 12V **Repair Mode** is designed for 12V LEAD-ACID BATTERIES ONLY. It is a battery recovery mode for repairing & restoring damaged, stratified and sulphated batteries. The **REPAIR** lights up and charging starts. The recovery process will take one to four hours and the battery will be charged in 12V 10A mode if recovery is successful or FAL will be shown on the display for failure.

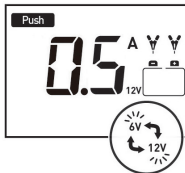






- vi) 12V **Supply Mode**: Works as a 12V DC power supply for powering 12V devices or as a memory retainer when replacing a battery. **THIS FEATURE WILL OVERRIDE SHORT-CIRCUIT AND REVERSE-POLARITY PROTECTION.** Disable these protection can cause sparks, fire or damage your charger and/or device connected if used improperly. **DO NOT USE THIS FEATURE FOR BATTERY CHARGING.** Before connecting battery clamps to 12V device, press and hold **MODE** button for 3 seconds, the **POWER** lights up and charging will be started once the device is connected.

OPERATING INSTRUCTIONS CONT.:



Vii) 12V battery voltage indication.



Viii) **Push Mode** is designed for charging batteries with voltage in between 0.5V to 3.75V.  pops up and flashes when battery is connected and low voltage is detected. You need to press and hold  for 3 seconds to enter Push Mode,  lights up and at the same time 6V and 12V icon flashes alternatively for battery voltage selection. You need to press  once to confirm the voltage selection. The battery will be charged with maximum current of 0.5A until the voltage is over 3.75V and it will enter the selected charge mode for charging onwards.

FCC Compliance Statement:
10A Battery Charger and Maintainer
Model: AC532575 / Responsible Party: TYPE S
2975 Red Hill Ave., Ste. 100, Costa Mesa, CA 92626 / Tel: 866-294-9244

This device complies with Part 15 of the FCC Rules.

Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) This device must accept any interference received, including interference that may cause undesired operation.

WARNING: Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications or change to this equipment. Such modifications or change could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and the receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

CAN ICES-3 (B)/NMB-3(B)

TOURING ITEMS
TYPE S

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