



1A Battery Charger and Maintainer

WP ITM. AC532710 User Manual

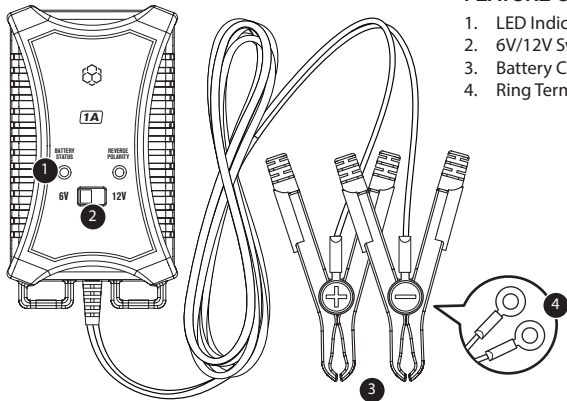
IMPORTANT!
READ THE ENTIRE INSTRUCTION MANUAL
CAREFULLY AND MAKE SURE THAT YOU
FULLY UNDERSTAND IT BEFORE YOU USE
THE EQUIPMENT. KEEP THE MANUAL FOR
FUTURE REFERENCE.



BC

TECHNICAL SPECIFICATIONS:

Input Rating:	100-120VAC, 50-60Hz, 22W
Charging Voltage:	6VDC, 12VDC
Charging Current:	1A (6VDC), 1A (12VDC)
Reverse Current:	<5mA
Low Voltage Detection:	3.75V (6VDC), 7.5V (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
Connector:	Battery Clamps and Ring Terminals
Battery Capacity:	Up to 20Ah, maintains all battery sizes.
Product Dimensions:	2.46 x 4.36 x 2.2 inch (62.5 x 110.7 x 56 mm) (charger only)
Product Weight:	0.8 lb (363 g)



FEATURE OVERVIEW :

1. LED Indicators
2. 6V/12V Switch
3. Battery Clamps
4. Ring Terminals

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 AC532710.

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) Use charger for charging a LEAD-ACID battery only. 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

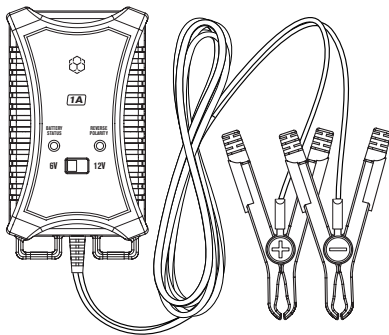
Unplug the charger before cleaning it with a damp cloth. Use only mild cleaning agents, no solvents or corrosive chemicals.

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

1A Battery Charger and Maintainer with detachable ring terminals x 1

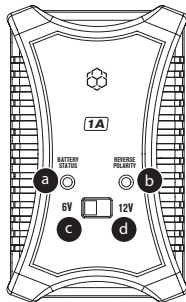


OPERATING INSTRUCTIONS

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.

FEATURE OVERVIEW


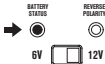
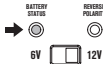
- a** Battery Status
- b** Reverse Polarity
- c** 6V Vehicle Battery
- d** 12V Vehicle Battery





CHARGING STATUS


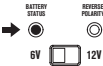
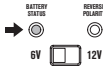
While charging vehicle battery, the LED Indicators will show the charging status. Please see example below for 12V & 6V battery:




12V BATTERY CHARGING

i) 12V Battery Connected :	ii) Charging in Process :	iii) 12V Battery Fully Charged; Maintenance Mode in Progress (0.2A):
		
	RED Battery Status LED lights up	GREEN Battery Status LED lights up

Low Battery Voltage $(3.75V < 12V \text{ Vehicle Battery Voltage} < 7.5V)$		RED Battery Status LED flashes and no charging will be performed. Please consult qualified technician for repair or replacement.
Bad Battery $(12V \text{ Vehicle Battery Voltage} < 3.75V)$		All LED off and no charging will be performed. Please consult qualified technician for repair or replacement.

6V BATTERY CHARGING

i) 6V Battery Connected :	ii) Charging in Process :	iii) 6V Battery Fully Charged; Maintenance Mode in Progress (0.2A):
		
	RED Battery Status LED lights up	GREEN Battery Status LED lights up

Low Battery Voltage $(1V < 6V \text{ Vehicle Battery Voltage} < 3.75V)$		RED Battery Status LED flashes and no charging will be performed. Please consult qualified technician for repair or replacement.
Bad Battery $(6V \text{ Vehicle Battery Voltage} < 1V)$		All LED off and no charging will be performed. Please consult qualified technician for repair or replacement.
Wrong Charging Voltage		Charging voltage is wrongly selected. RED Battery Status LED flashes and no charging will be performed. Please check the voltage of battery again and reselect the correct charging voltage.

Reverse Polarity



AUTOMATIC CHARGING

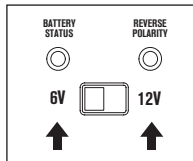
1. Clean the battery terminals if necessary, always wear safety glasses to protect your eyes.
2. Verify the voltage and type of battery.
3. Connect the **RED** Clamp / ring terminal to the POSITIVE (+) post of the battery terminal. The POSITIVE battery post will be marked with a PLUS (+) sign. There 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. Select 6V or 12V manually by switching the button to the corresponding reading. Connect the AC power plug of battery charger into a wall socket and charging will be started automatically.



STATEMENT

FCC Compliance Statement:

1A Battery Charger and Maintainer

Model: AC532710 / Responsible Party: YADA

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.



2975 Red Hill Ave., Ste. 100, Costa Mesa, CA 92626

Mon - Fri, 8AM - 5PM (Pacific Time)

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customercare@horizon-brands.com

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Made in China

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