

TOURING ITEMS[®]
TYPES

10A

**BATTERY CHARGER
& MAINTAINER**

WITH 140W GaN POWER ADAPTER



WP ITM. AC535152
User Manual

IMPORTANT, RETAIN FOR FUTURE REFERENCE: READ CAREFULLY

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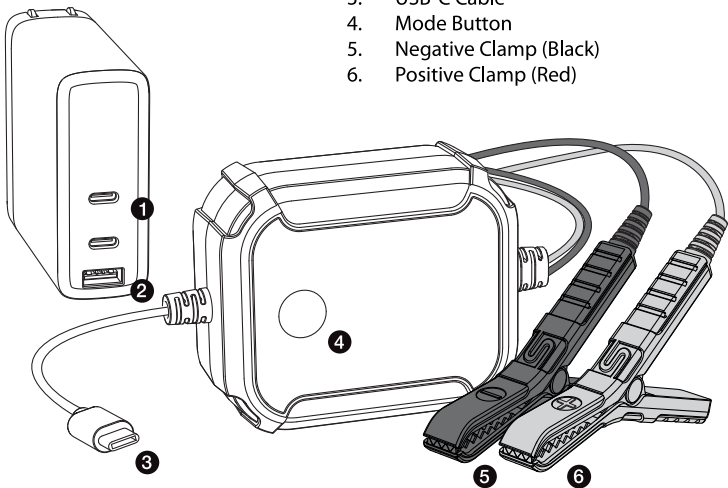
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TECHNICAL SPECIFICATIONS

Input:	28VDC, 140W
Output:	120Watts Max.
Charging Voltage:	12V
Charging Current:	1A, 10A
Operation Temperature:	32°F ~ 104°F (0°C ~ 40°C)
Product Dimensions:	3.4 x 2.8 x 1.3 in

FEATURE OVERVIEW

1. 140W GaN Adapter USB-C Ports
2. 140W GaN Adapter USB-A Port
3. USB-C Cable
4. Mode Button
5. Negative Clamp (Black)
6. Positive Clamp (Red)



WARNING

- 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 Li-ion, 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, **especially when operating in 12V Supply Mode.**
- 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

- This manual contains important safety and operating instructions for battery charger Model AC535152.
- Do not expose charger to rain or snow.
- 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.
- To reduce risk of damage to electric plug and cord, pull by plug rather than cord when disconnecting charger.
- An extension cord should not be used. Use of improper extension cord could result in a risk of fire and electric shock.
- Do not operate charger with damaged cord or plug – replace the cord or plug immediately.
- 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.
- 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.
- 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

- 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.
- 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

- Consider having someone close enough by to come to your aid when you work near a lead-acid battery.
- Have plenty of fresh water and soap nearby in case battery acid contacts skin, clothing, or eyes.
- Wear complete eye protection and clothing protection. Avoid touching eyes while working near battery.
- 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.
- NEVER smoke or allow a spark or flame in vicinity of battery or engine.
- 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.
- 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.
- It is not intended to supply power to a low voltage electrical system. 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.
- NEVER charge a frozen battery.

PREPARING TO CHARGE

- 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.
- Be sure area around battery is well ventilated while battery is being charged.
- Clean battery terminals. Be careful to keep corrosion from coming in contact with eyes.
- 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.
- Study all battery manufacturer's specific precautions while charging and recommended rates of charge.
- 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

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

DC CONNECTION PRECAUTIONS

- Connect and disconnect DC output battery clamps only after setting any charger switches to "off" position and removing the cord from electric outlet. Never allow battery clamps to touch each other.
- 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:

- Position the cords to reduce risk of damage by hood, door, or moving engine part.
- Stay clear of fan blades, belts, pulleys, and other parts that can cause injury to persons.
- Check polarity of battery posts. POSITIVE (POS, P, +) battery post usually has larger diameter than NEGATIVE (NEG, N, -) post.
- 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).
- 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.
- 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.

- When disconnecting charger, turn switches to off, disconnect the cord, remove battery clamp from vehicle chassis, and then remove battery clamp from battery terminal.
- See operating instructions for length of charge information.

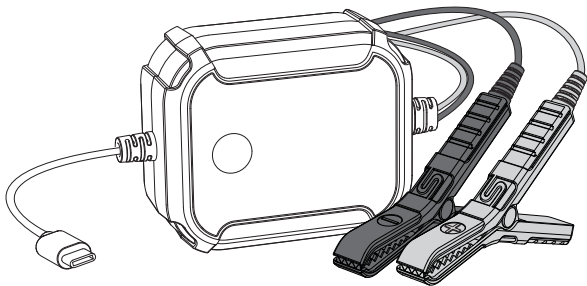
FOLLOW THESE STEPS WHEN BATTERY IS OUTSIDE VEHICLE. A SPARK NEAR THE BATTERY MAY CAUSE BATTERY EXPLOSION. TO REDUCE RISK OF A SPARK NEAR BATTERY:

- Check polarity of battery posts. POSITIVE (POS, P, +) battery post usually has a larger diameter than NEGATIVE (NEG, N, -) post.
- Attach at least a 24-inch-long 6-gauge (AWG) insulated battery cable to NEGATIVE (NEG, N, -) battery post.
- Connect POSITIVE (RED) charger battery clamp to POSITIVE (POS, P, +) post of battery.
- 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.
- Do not face battery when making final connection.
- When disconnecting charger, always do so in reverse sequence of connecting procedure and break first connection while as far away from battery as practical.
- A marine (boat) battery must be removed and charged on shore. To charge it on board requires equipment specially designed for marine use.

CLEANING & MAINTENANCE

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

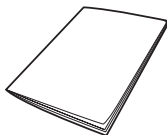
PACKAGE CONTENTS



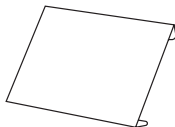
1 x USB-C Charger/Maintainer with Clamps



1 x 140W GaN Adapter



1 x User Manual



1 x Quick Installation Guide



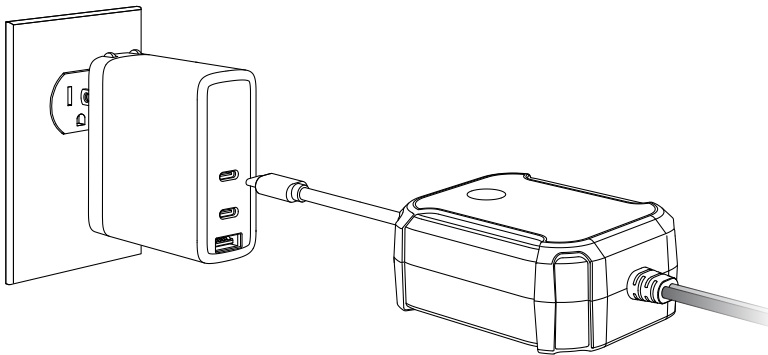
1 x Warranty Card

USING THE CHARGER

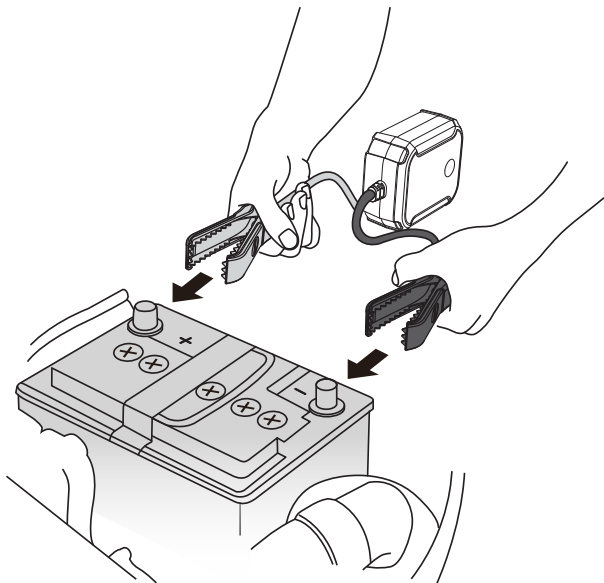
CONNECTING THE CHARGER

1. Connect the USB-C cable to the 140W GaN adapter, then to a wall socket (not included).

CAUTION: Do not use any other ports while charging your battery via the USB-C port.

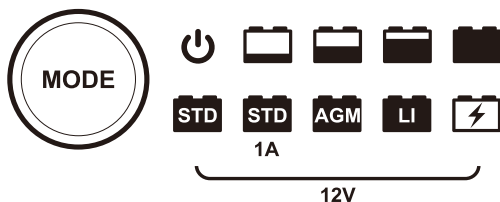


2. Connect the battery clamps one at a time.
- First, connect the **RED** clamp to the POSITIVE (+) battery post. The POSITIVE battery post is marked with a PLUS (+) sign. It may also have a RED plastic protective cover.
 - Then, connect the **BLACK** clamp to the NEGATIVE (-) battery post. It may have a BLACK plastic protective cover.
(If the battery is mounted in a vehicle, connect the **BLACK** clamp to an unpainted metal part of the vehicle chassis away from the battery and any fuel lines.)



Once connected, the charger automatically detects the battery voltage and starts charging in standard mode. Refer to the next section for instructions on monitoring the charging status and switching between modes.

LED GUIDE ICONS



The charger's LED display provides step-by-step instructions for charging your battery. Follow the icons as they appear on the display:

1. Verify the voltage and type of battery you're charging. Press **MODE** to cycle to the appropriate mode, then press and hold to confirm.

Icons	Charging Mode*
 	12V 10A Charging Mode for Lead-Acid Battery Designed for 12V Lead-Acid batteries with capacities higher than 35Ah being charged at 10 AMPS under normal weather conditions.
 	12V 1A Charging Mode for Lead-Acid Battery Designed for 12V Lead-Acid batteries with capacities higher than 25Ah being charged at 1 AMP under normal weather conditions.
 	12V 10A Charging Mode for AGM Battery Designed for AGM / GEL batteries or batteries with capacities higher than 35Ah being charged at 10 AMPS under normal weather conditions.
 	12V 10A Charging Mode for Lithium-ion (incl. LiFePO₄) Battery Designed for 12V Lithium batteries, including Lithium Iron Phosphate (LiFePO ₄) batteries being charged at 10 AMPS under normal weather conditions.

***NOTE:** If the battery voltage is detected to be below 4V, the charger will automatically switch to **12V Push Mode**, and      will flash in sequence. In this mode, charging starts at a low current and switches to standard mode at 4V. If 4V is not reached within 5 minutes, the charger enters standby.

To power 12V devices or retain your vehicle's settings during a battery swap, switch to supply mode:

Icons	Power Mode
	12V Supply Mode Functions as a 12V DC power supply for powering 12V devices or as a memory retainer when replacing a battery. DO NOT USE THIS FEATURE FOR BATTERY CHARGING. IN THIS MODE, THE UNIT'S SHORT CIRCUIT AND REVERSE-POLARITY PROTECTION FEATURES ARE OVERRIDEN. Disabling these protections can cause sparks, fire, or damage to the charger and/or any connected device.

2. Monitor the charging status using the guide icons.

Icons	Charge Level
	0 – 25%
	25 – 50%
	50 – 75%
	75 – 100%
	Full Charge / Maintenance (If the charger remains connected after the battery reaches full charge, it will automatically switch to maintenance charging.)

3. When charging is complete, disconnect the battery clamps. First, remove the **BLACK** clamp, then the **RED** clamp.

TROUBLESHOOTING

Icons	Issue	Solution
	General Charging Issues	Check the cables, connectors, and wiring for damage or shorts, and ensure the power supply meets the charger's required voltage. Only use the provided adapter for charging.
	Overheat	Allow the unit to cool before use. When charging, ensure proper ventilation and do not place the charger on the battery.
	Overvoltage	Reconnect the charger to the battery and try again. If the issue persists, contact TYPE S for troubleshooting.
	Overcurrent	
	Reverse Polarity	Reconnect clamps correctly: RED to POSITIVE (+) and BLACK to NEGATIVE (-).

FCC COMPLIANCE STATEMENT

10A Battery Charger & Maintainer With 140W GaN Power Adapter

Model: AC535152

Responsible Party:

TYPE S

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

Tel: 1-866-294-9244

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 a 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 communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does 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 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.



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