

**NOCO**   
**genius**<sup>®</sup>  
wicked smart chargers<sup>™</sup>

**G750**  
**.75A** (750mA)  
**6V & 12V**

**Owner's Manual & User Guide**

## **WARNING**



**Risk of SERIOUS INJURY OR DEATH.**

**ELECTRICAL SHOCK, EXPLOSION,  
FIRE, AND EYE INJURY HAZARDS.**

PROTECT YOURSELF AND OTHERS.

Before use, **READ AND UNDERSTAND** the manufacturer's instructions and Owner's Manual and User Guide.

Failure to read and understand this information could result in **SERIOUS INJURY** or **DEATH**.

**DO NOT REMOVE OR COVER THIS INFORMATION.**

## WELCOME!

Thank you for buying the **NOCO Genius G750**. **SAVE THESE INSTRUCTIONS**. This Owner's Manual and User Guide contains important safety and operating instructions for model G750.

### WHAT'S IN THE BOX:

- **G750 Charger**
- **Battery Clamp Connectors**
- **Eyelet Terminal Connectors**
- **Quick Start Guide**

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## CONTACTING NOCO GENIUS

### About Our Products

For questions regarding our products, you can contact technical support at:

**Phone:** 1.800.456.6626

**Email:** [support@geniuschargers.com](mailto:support@geniuschargers.com)

You can also find troubleshooting tips in this manual. See the section called "Troubleshooting." You can also find our troubleshooting tips online at:

[geniuschargers.com/  
support/faq](http://geniuschargers.com/support/faq)

### About Our Products



NOCO Genius is a brand of Wicked Smart Battery Chargers developed by The NOCO Company.


### THE NOCO COMPANY



30339 Diamond Parkway, #102  
Glenwillow, OH 44139  
United States of America


### Hours of Operation:

Between 8AM & 5PM (EST)  
Monday through Friday

<b>! DANGER</b>	
	<p><b>ELECTRICAL SHOCK HAZARD</b></p> <p>CHARGER IS AN ELECTRICAL DEVICE THAT CAN SHOCK AND CAUSE SERIOUS INJURY.</p> <p>DO NOT CUT POWER CORDS.</p> <p>DO NOT SUBMERGE IN WATER OR GET CHARGER WET.</p>
	<p><b>EXPLOSION HAZARD</b></p> <p>UNMONITORED, INCOMPATIBLE, OR DAMAGED BATTERIES CAN EXPLODE IF USED WITH CHARGER.</p> <p>DO NOT LEAVE CHARGER UNATTENDED WHILE IN USE.</p> <p>DO NOT ATTEMPT TO CHARGE DAMAGED OR FROZEN BATTERIES.</p> <p>USE CHARGER ONLY WITH BATTERIES OF RECOMMENDED VOLTAGE.</p> <p>OPERATE CHARGER ONLY IN WELL-VENTILATED AREAS.</p>

<b>! WARNING</b>	
	<p><b>FIRE HAZARD</b></p> <p>CHARGER IS AN ELECTRICAL DEVICE THAT EMITS HEAT AND CAN BURN.</p> <p>DO NOT COVER CHARGER.</p> <p>DO NOT SMOKE OR USE ANY OTHER SOURCE OF ELECTRICAL SPARK OR FIRE WHEN OPERATING CHARGER.</p> <p>KEEP CHARGER AWAY FROM COMBUSTIBLE MATERIALS.</p>
<p>BATTERY POSTS, TERMINALS, AND RELATED ACCESSORIES CONTAIN CHEMICALS, INCLUDING LEAD, KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER AND BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM.</p> <p>ALWAYS WASH YOUR HANDS AFTER HANDLING THESE PRODUCTS.</p>	

<b>! WARNING</b>		
	<p><b>EYE INJURY HAZARD</b></p> <p>BATTERIES CAN EXPLODE AND CAUSE FLYING DEBRIS.</p> <p>BATTERY ACID CAN CAUSE EYE IRRITATION.</p> <p>WEAR EYE PROTECTION WHEN OPERATING CHARGER.</p> <p>AVOID CONTACT WITH EYES AND WASH HANDS AFTER USING CHARGER.</p> <p>IN CASE OF EYE CONTACT, FLUSH AFFECTED AREA WITH PLENTY OF WATER.</p>	

<b>! WARNING</b>	
	<p><b>RISK OF EXPLOSIVE GASES</b></p> <p>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.</p> <p>To reduce risk of battery explosion, follow these instructions and those published by battery manufacturer and manufacturer of any equipment intended to be used in vicinity of battery. Review cautionary markings on these products and on engine.</p>

**⚠ CAUTION**

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.

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.

**DO NOT USE EXTENSION CORDS** unless absolutely necessary. Using an improper extension cord could result in a risk of fire and electric shock and may result in property damage, personal injury or death. If extension cord must be used, make sure that:

- 1.) The pins on the extension cord plug have the same number, size, and shape as those of the AC power cord plug on the charger.
- 2.) The extension cord is properly wired and is in good electrical condition.
- 3.) The wire size is as specified in Table I below:

**TABLE 1: RECOMMENDED MINIMUM AWG SIZE FOR EXTENSION CORDS FOR BATTERY CHARGERS**

AC INPUT RATING, AMPERES*		AWG SIZE OF CORD			
		Length Of Cord, Feet (m)			
Equal To Or Greater Than	But Less Than	25 (7.6)	50 (15.2)	100 (30.5)	150 (45.6)
0	2	18	18	18	16
2	3	18	18	16	14
3	4	18	18	16	14
4	5	18	18	14	12
5	6	18	16	14	12
6	8	18	16	12	10
8	10	18	14	12	10
10	12	16	14	10	8
12	14	16	12	10	8
14	16	16	12	10	8
16	18	14	12	8	8
18	20	14	12	8	6

\*If the input rating of a charger is given in watts rather than amperes, the corresponding ampere rating is to be determined by dividing the wattage rating by the voltage rating - for example:

$$1250 \text{ watts} / 125 \text{ volts} = 10 \text{ amperes}$$

## PERSONAL PRECAUTIONS

### USE THE FOLLOWING PRECAUTIONS WHEN YOU WORK NEAR LEAD-ACID BATTERIES:

- Someone should be within range of your voice or close enough to come to your aid if you have an accident.
- Have plenty of fresh water and soap nearby in case battery acid contacts skin, clothing, or eyes.
- Wear complete eye protection and protective clothing. Avoid touching your eyes while working near a battery. If battery acid contacts your skin or clothing, wash immediately with soap and water. If acid enters an eye, immediately flood the eye with running cold water for at least ten (10) minutes and seek medical attention as soon as possible.
- Be extra cautious when handling metal tools around a battery. If you drop a metal tool near a battery it might spark or create a short circuit between the battery terminals and some other metal part. Either event may cause a dangerous electrical shock hazard, a fire, or even an explosion, resulting in property damage, personal injury, or death.
- Never smoke or allow an open spark or flame in the vicinity of the battery or engine.
- Remove all personal items made of metal, such as, rings, bracelets, necklaces, and watches when working with a lead-acid battery. A lead-acid battery can produce a short-circuited current high enough to weld a metal ring or other piece of jewelry, causing a severe burn.
- This battery charger is for charging LEAD-ACID BATTERIES ONLY. DO NOT USE THE BATTERY CHARGER FOR DRY-CELL BATTERIES THAT ARE COMMONLY USED WITH HOME APPLIANCES. THESE TYPES OF BATTERIES MAY BURST AND MAY CAUSE PROPERTY DAMAGE, PERSONAL INJURY OR DEATH.
- NEVER charge a frozen battery.

### BEFORE CHARGING

- To avoid an electric arc (or spark), turn off or disconnect all of the accessories in the vehicle. Always remove the cable that is connected to grounded terminal from battery first.
- Make sure the area around the battery is well-ventilated while the battery is being charged. If necessary, use a non-metallic material to blow away the gas

in the area.

- If necessary, clean the battery terminals. Be careful to keep the corrosion and other debris from coming in contact with your skin or eyes.
- If the battery is not a sealed battery, add distilled water to each cell (if necessary) until the battery acid solution reaches the level specified by battery manufacturer. Do not overfill. For a battery without cell caps, such as a valve regulated lead-acid battery (VRLA), carefully follow the battery manufacturer's charging instructions.
- Before charging, carefully read the battery manufacturer's specific precautions and recommended rates of charge.
- Determine the voltage of the battery by referring to the vehicle's owner's manual and make sure that the charge mode is set at the correct voltage.
- Connect and disconnect the DC output cables only after the battery charger is placed in the STANDBY mode and the AC cord is removed from the electrical outlet. Never allow the battery clamp or eyelet terminal connectors to touch each other.

### LOCATING BATTERY CHARGER

- Locate the battery charger as far away from the battery as possible.
- Never place the battery charger directly above the battery; gases from battery will corrode and damage battery charger.
- When reading electrolyte specific gravity or filing battery, never allow battery acid to come in contact with the battery charger.
- Do not operate the battery charger in a closed-in area or an area with restricted ventilation.
- Do not set a battery on top of battery charger.

### BATTERY SPECS

The following recommendations should ONLY be considered as guidelines. Always refer to the battery manufacturer's recommendations for battery charging. The G750 is suitable for charging all types of 6V & 12V lead-acid batteries, including Wet (Flooded), Gel, MF (Maintenance-Free) and AGM (Absorption Glass Mat) batteries. The G750 is suitable for charging batteries sized from 1.2 to 30Ah. The battery charger can also maintain all battery sizes.

## CONNECTING TO THE BATTERY

Before you connect to the battery, make sure that the AC power plug is not connected to an electrical outlet. **DO NOT CONNECT THE BATTERY CHARGER AC POWER PLUG TO THE ELECTRICAL OUTLET UNTIL ALL OTHER CONNECTIONS ARE MADE.** Make sure you have identified the correct polarity of the battery terminals on the battery. The POSITIVE battery terminal is typically marked by these letters or symbol (POS,P,+). The NEGATIVE battery terminal is typically marked by these letters or symbol (NEG,N,-). If you are having difficulty determining the polarity of the battery terminals, see the Wicked Smart Tip below, before proceeding.

## IF THE BATTERY IS OUTSIDE OF THE VEHICLE

- 1.) Connect the POSITIVE (Red) battery clamp or eyelet terminal connector to the POSITIVE (POS,P,+) battery terminal.
- 2.) Connect the NEGATIVE (Black) battery clamp or eyelet terminal connector to the NEGATIVE (NEG,N,-) battery terminal. If you have accidentally reversed the polarity, an ERROR LED (Orange) will illuminate. The battery charger has an internal safety feature to protect the battery charger from damage if this situation should occur. Reverse the connections to clear the ERROR LED and proceed to the next step.
- 3.) Connect the battery charger's AC power plug into a suitable electrical outlet. **DO NOT FACE THE BATTERY WHEN MAKING THIS CONNECTION.**
- 4.) When disconnecting the battery charger, disconnect in the reverse sequence, removing the NEGATIVE first.

### WICKED SMART TIP

#### HOW TO IDENTIFY THE POSITIVE AND NEGATIVE BATTERY

**TERMINALS.** The Reverse Polarity Protection feature on the G750 is enabled even when the AC power plug is not connected. **MAKE SURE THE AC POWER PLUG IS NOT CONNECTED TO AN ELECTRICAL OUTLET.** Connect the battery clamp or eyelet terminal connectors to the battery terminals. If an ERROR LED (Orange) illuminates, the battery connections are reversed (positive to negative, and vice versa). If the ERROR LED (Orange) **DOES NOT** illuminate, the battery connections were made correctly. In either case, you will be able to identify the polarity of the battery terminals. Make sure to make a note of it.

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## IF THE BATTERY IS INSTALLED INSIDE OF THE VEHICLE

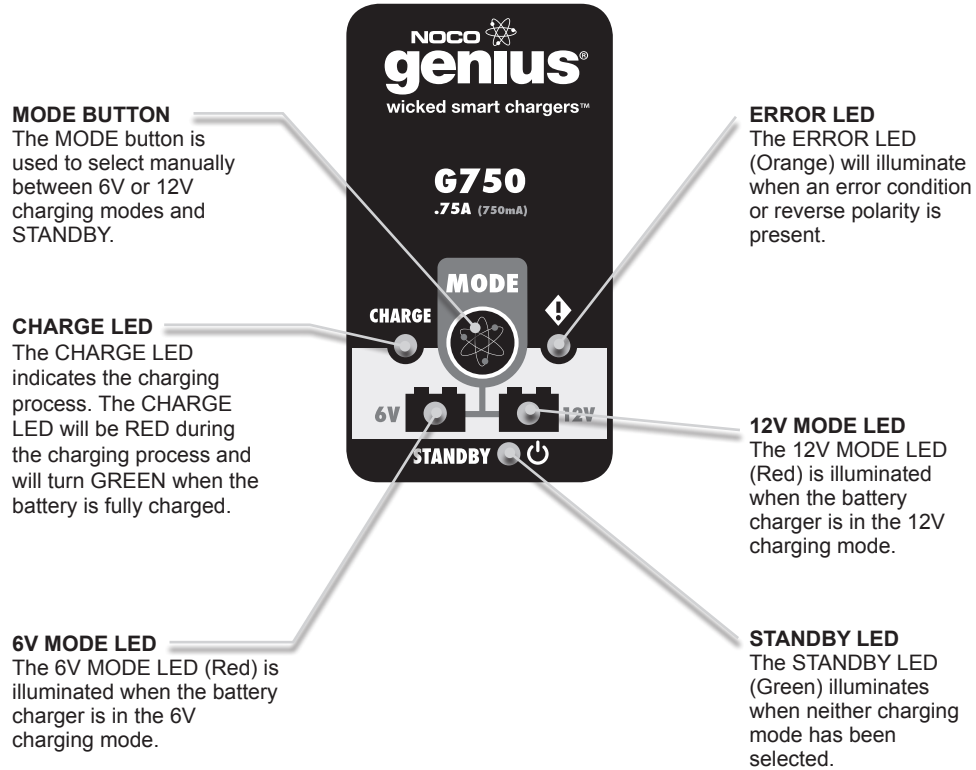
- 1.) Position both the AC power plug and battery clamps or eyelet terminal connectors to avoid accidental damage by moving vehicle parts (i.e. hoods, doors) or moving engine parts (i.e. fan blades, belts, pulleys).
- 2.) Determine the vehicle's battery system. If the POSITIVE (POS,P,+) battery terminal is connected to the vehicle chassis, then the vehicle has a Positive Ground System. If the NEGATIVE (NEG,N,-) battery terminal is connected to the vehicle chassis, then the vehicle has a Negative Ground System. Negative Ground Systems are the most common.
- 3: **Option A) For Negative Ground Systems,** connect the POSITIVE (Red) battery clamp or eyelet terminal connector to the POSITIVE (POS,P,+) battery terminal. Next, connect the NEGATIVE (Black) battery clamp or eyelet terminal connector to the vehicle chassis. **DO NOT CONNECT TO THE CARBURETOR, FUEL LINES, OR THIN, SHEET METAL PARTS. MAKE THE CONNECTION TO THE ENGINE BLOCK OR A HEAVY GAUGE METAL PART OF THE FRAME.**
- 3: **Option B) For Positive Ground Systems,** connect the NEGATIVE (Black) battery clamp or eyelet terminal connector to the NEGATIVE (NEG,N,-) battery terminal. Next, connect the POSITIVE (Red) battery clamp or eyelet terminal connector to the vehicle chassis. **DO NOT CONNECT TO THE CARBURETOR, FUEL LINES, OR THIN, SHEET METAL PARTS. MAKE THE CONNECTION TO THE ENGINE BLOCK OR A HEAVY GAUGE METAL PART OF THE FRAME.**
- 4.) Connect the battery charger's AC power plug into a suitable electrical outlet. **DO NOT FACE THE BATTERY WHEN MAKING THIS CONNECTION.**
- 5.) When disconnecting the battery charger, disconnect in the reverse sequence.

### WICKED SMART TIP

Positive Ground Systems are not very common nowadays. They are typically found on vintage cars (i.e. classic cars) and tractors manufactured before the early 1970's. The reason for the conversion to Negative Ground Systems was primarily due to the battery corrosion that accumulated on the positive battery terminals. It was believed that Positive Ground Systems suffered from increased battery corrosion due to the opposite polarity since anodes have an oxidation reaction and cathodes have a reduction reaction. In a battery, the cathode is the positive.

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**USER INTERFACE**



**HOW TO START CHARGING**

- 1.) Confirm that you have connected the battery clamp or eyelet terminal connectors properly and the AC power plug is plugged into an electrical outlet.
- 2.) The battery charger will begin in the STANDBY mode, indicated by a GREEN LED. In the STANDBY mode, the battery charger is not outputting any current. By pressing the MODE button, toggle to the appropriate charge mode, either 6V or 12V, to begin the charging process.
- 3.) Upon selecting either 6V or 12V charge mode, a RED LED will illuminate the selected charge mode and the CHARGE LED (Red) will illuminate indicating the charging process has started.
- 4.) When the battery is fully charged, the CHARGE LED will change from RED to GREEN, indicating the charge process is complete.
- 5.) The battery charger can be left connected to the battery at all times to provide maintenance charging. However, it is good practice to check the battery periodically.

**WICKED SMART FEATURE**

**INITIALIZATION.** When the battery charger is plugged into an AC electrical outlet and connected to a battery, there will be a brief (one- to three-seconds) delay, then all LEDs will light up for a half (1/2) second, to confirm all LEDs are operational. After the initialization, the only LED that will illuminate is the last mode selected. If not in STANDBY mode, the battery charger will begin charging after five (5) seconds. The five (5) second delay allows time to toggle through the charge modes.

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**WICKED SMART FEATURE**

**AUTO-MEMORY.** If at any time the battery charger is disconnected from its power source, either from a power loss or accidentally disconnecting the AC power plug from the electrical outlet, the battery charger will remember the previously selected charge mode when power is restored. The battery charger will automatically resume the charging process to ensure your battery is fully charged.



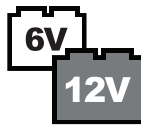
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**WICKED SMART TIP**


**ERROR CONDITION.** An ERROR condition could happen for multiple reasons. If an ERROR condition occurs, the ERROR LED and CHARGE LED will blink "on" and "off" at 5Hz. For assistance in resolving ERRORS, see the section entitled - TROUBLESHOOTING.


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FEATURE OVERVIEW

 **6V/12V COMPATIBILITY**  
Charges 6V&12V batteries

 **AUTO-MEMORY**  
Returns to last selected mode when restarted

 **FULLY INTERACTIVE**  
Automatically adjusts itself to changing current needs

 **DESIGNED FOR SAFETY**  
Reverse polarity, short circuit, open circuit, spark proof, overheat, overcurrent & overcharge

 **HF/HE SWITCH MODE DESIGN**  
High-frequency, high-efficiency for a lightweight, compact charger

 **EXTENDABLE CONNECTORS**  
Plug-n-play connectors for easy accessory changes



**RAPID CHARGING TECHNOLOGY**  
Charges batteries 2X faster than traditional linear battery chargers



**VARIABLE INPUT COMPENSATED**  
100% full charge even with varying A/C input voltages



**MULTIPLE BATTERY CHEMISTRY**  
Safely charges Wet, Gel, MF & AGM batteries



**ABNORMALITY PROTECTION**  
Automatically shuts "off" if charger remains in Bulk charge mode for an extended period of time

**WICKED SMART FEATURE**

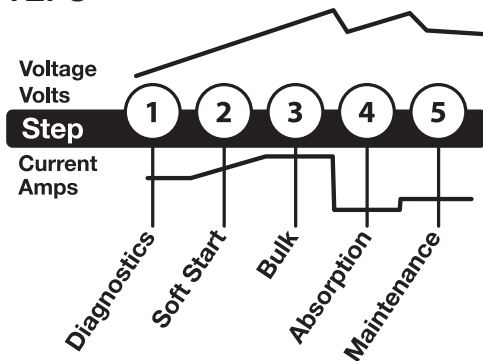


The VosFX Processor is a revolutionary smart processor utilizing sophisticated levels of intelligence to alter the charge process based on organic feedback from the battery to extend battery life. The VosFX Processor quickly and efficiently makes decisions on how to charge the battery without risking user safety or damage to the battery.

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**CHARGING STEPS**



**Step 1: Diagnostics**

Checks the battery voltage to make sure battery connections are good and the battery is in a stable condition before beginning the charging process.

**Step 2: Soft Start**

Begins Bulk charging process with a gentle (soft) charge.

**Step 3: Bulk**

Continues Bulk charging process, returns 90% of battery capacity.

**Step 4: Absorption**

Brings the charge level to 100%. The battery charger will deliver small amounts of current to provide a safe, efficient charge and limit battery gassing.

**Step 5: Maintenance**

Monitors the battery voltage continuously to determine if a maintenance charge should be initiated. If the terminal voltage falls below approximately 6.4V (6V) and 12.8V (12V), the charger will start the Maintenance cycle until voltage reaches approximately 7.2V (6V) and 14.4V (12V) and then will discontinue the charge cycle. Maintenance cycle is repeated indefinitely to keep the battery at full charge, without overcharging. The battery charger can be left connected indefinitely.

**WICKED SMART FEATURE**

**ABNORMALITY PROTECTION.** If the battery charger is in the Bulk phase for more than 120 hours, the battery charger will go into an ERROR condition. This feature prevents damage if the battery is faulty.



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**CHARGING TIMES**

The time required for the G750 to charge a normally discharged battery is shown below. Deeply discharged batteries may take longer to charge depending on the depth of discharge (DOD). The charge time is based on an average depth of discharge to a fully charged battery.

BATTERY SIZE (Ah)	APPROX. TIME TO CHARGE IN HOURS*	
	6V	12V
1.2	1.5	1.5
2.2	2.5	2.5
7.2	8	8
14	15	15
25	27	27
30	33	33

\*Note: The above table is for reference purposes only. Actual data may differ due to battery conditions. The time required for the G750 to charge a normally discharged battery is based on an average DOD of 50%.

**MAINTENANCE**

The G750 does not require any maintenance. Do not attempt to open or repair the battery charger as it will invalidate the limited warranty. A damp cloth may be used to clean dust, dirt, or other debris off of the battery charger. **BEFORE ATTEMPTING TO CLEAN THE BATTERY CHARGER, MAKE SURE YOU REMOVE THE AC POWER PLUG FROM THE POWER SOURCE.**

<b>Input Voltage AC:</b>	110-120 VAC, 50-60Hz
<b>Working Voltage AC:</b>	85-130 VAC, 50-60Hz
<b>Input Current:</b>	300mA RMS Max
<b>Efficiency:</b>	85% Approx.
<b>Power:</b>	20W Max
<b>Charging Voltage:</b>	7.2V/14.4V
<b>Charging Current:</b>	750mA
<b>Back Current Drain:</b>	<5mA
<b>Ripple:</b>	<2%
<b>Ambient Temperature:</b>	0°C to +40°C
<b>Charger Type:</b>	5 Step, Fully Automatic, Switch-Mode
<b>Type of Batteries:</b>	6V & 12V Lead-Acid
<b>Battery Chemistries:</b>	Wet, Gel, MF & AGM
<b>Battery Capacity:</b>	1.2-30Ah, Maintains All Battery Sizes
<b>Housing Protection:</b>	IP60
<b>Cooling:</b>	Natural Convection
<b>Noise Level:</b>	<50 dB
<b>Dimensions (L x W x H):</b>	4.5 x 2.7 x 1.3 Inches
<b>Weight:</b>	0.5 Pounds
<b>Approval:</b>	ETL for US and Canada

**WICKED SMART TIP**

**RIPPLE.** Describes the disturbances by current and voltage. A ripple voltage may cause damage to other equipment connected to the battery. Less than 2% is wicked low, which will help increase battery life and protect equipment from damage.

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**TROUBLESHOOTING****ORANGE ERROR LED ILLUMINATES**

If you have accidentally reversed the battery connections, POSITIVE to NEGATIVE (and vice versa), an ERROR LED (Orange) will illuminate solid. If you see the ERROR LED illuminated, you will need to clear the ERROR by correcting the battery connections, POSITIVE to POSITIVE and NEGATIVE to NEGATIVE. The ERROR LED is a visual diagnostic tool to inform you that you have made the wrong battery connections. Accidentally connecting to the battery in reverse polarity will not cause any damage to the battery charger or battery. This safety feature is enabled even when the AC power plug is unplugged.

**BLINKING ERROR AND CHARGE LED ILLUMINATES**

When the battery charger detects an ERROR condition, the ERROR LED and CHARGE LED will blink. If you are seeing this ERROR condition, it could be the result of one of the following situations:

- **BATTERY VOLTAGE INCOMPATIBILITY**

Check to make sure you have selected the correct charge mode for your battery. For example, if you have a 12V battery, make sure you have selected a 12V charge mode. If you have accidentally selected the wrong charge mode, it could cause this ERROR condition. Select the appropriate charge mode, to resolve this ERROR condition.

- **SULFATED, DAMAGED OR POOR BATTERY**

This ERROR condition can be the result of a sulfated, damaged, or poor battery. To properly diagnose a sulfated, damaged or poor battery, take the battery to a local battery store for an evaluation. If you have checked all other possible ERROR conditions and cannot clear the ERROR, it is probably the result of a sulfated, damaged, or poor battery. For other possible conditions of a sulfated, damaged, or poor battery, see the sections entitled "CHARGE LED IMMEDIATELY ILLUMINATES TO GREEN" and "BATTERY CHARGER MAKING A CLICKING SOUND" below.

- **LOW VOLTAGE BATTERY**

If the battery voltage is below 2.0VDC (6V) or 7.0VDC (12V), it could cause this ERROR condition. See the section entitled "LOW VOLTAGE BATTERY" below to resolve this ERROR condition.

Continued On Next Page

- **HIGH VOLTAGE BATTERY**

If the battery voltage is above 7.0VDC and you have selected 6V charge mode, it could cause this ERROR condition. This ERROR will cause the CHARGE LED and ERROR LED to blink continuously. To resolve this ERROR condition, select 12V charge mode.

- **ABNORMALITY PROTECTION**

This ERROR condition is the result of the battery charger being in the Bulk phase for more than 120 hours. This ERROR condition is the result of a bad battery. To resolve this ERROR condition, take the battery to a local battery store for an evaluation.

### **NO LIGHTS COME ON WHEN THE BATTERY CHARGER IS PLUGGED INTO AN ELECTRICAL OUTLET**

- **POOR AC CONNECTION**

Check if the AC outlet has power. If the AC outlet has no or limited power, it could cause this ERROR condition. Plug a light into the AC outlet to check if the outlet has power. If the light is extremely dim, this could be the result of limited AC power. The battery charger is designed for use at 85-130 VAC. If there is no power or the power is below 85VAC, locate another AC outlet that has sufficient power to resolve this ERROR condition.

### **BATTERY CHARGER STAYS IN STANDBY MODE AND WILL NOT CHANGE MODES**

If the battery charger stays in the STANDBY mode and will not change modes, it could be the result of one of the following situations:

- **BLOWN FUSE IN BATTERY CONNECTOR HARNESS**

Check the fuse in the battery connector harness. If the fuse in the battery connector harness has blown, it could cause this ERROR condition. Replace the fuse with a 10 amp automotive blade-type fuse to resolve this ERROR condition.

- **CORROSION ON BATTERY TERMINALS**

Check the battery connections for battery corrosion. If battery corrosion is present on the battery connections, it could cause this ERROR condition. Remove the battery corrosion to resolve this ERROR condition.

- **LOOSE BATTERY CONNECTIONS**

Check the battery connections to the battery. If the battery connections are loose, it could cause this ERROR condition. Tighten the battery connections to resolve this ERROR condition.

- **CHARGE LED IMMEDIATELY ILLUMINATES TO GREEN**

If the battery charger CHARGE LED immediately illuminate to GREEN when the AC power is applied to the battery charger, the battery is either already fully charged or the battery is in extremely poor condition as a result of sulfation or damage. If the battery is new, the battery is likely already fully charged. If the battery is relatively old and has not been used for a long period of time, the battery is probably so severely damaged that the battery cannot accept any current.

- **BATTERY CHARGER MAKING A CLICKING SOUND**

If the battery charger is making a “clicking” sound and will not go into a charge mode, it is probably the result of a battery in extremely poor condition as a result of sulfation or damage. The “clicking” noise you hear does not signify a battery charger failure. “Clicking” noise is the battery charger attempting to enter into a charge mode, but when current is applied to the battery, the battery voltage rises too quickly, and the battery charger shuts off. Once the current is removed from the battery, the battery voltage rapidly decreases, and the battery charger again tries to enter into a charge mode. The “clicking” sound and this ERROR loop condition will continue until the poor battery is removed.

- **LOW VOLTAGE BATTERY**

If the battery voltage is below 2.0VDC (6V) or 7.0VDC (12V), the ERROR LED (Orange) and the CHARGE LED (Red) will blink, indicating the battery is out of range for the battery charger. In this situation, the battery charger has determined that the battery voltage is too low to begin a normal charge process. In order to increase the battery voltage to allow the battery charger to begin charging, follow these steps:

- **FOR 6V BATTERIES**

If you are trying to charge a 6V battery that is below 2.0VDC, you will need to jump start the battery or connect the battery to a power supply to increase the battery voltage above 2.0VDC to begin the charge cycle.

Continued On Next Page

- **FOR 12V BATTERIES**

If you are trying to charge a 12V battery that is below 7.0VDC, switch the battery charger into 6V charge mode to begin charging a low voltage 12V battery. When the CHARGE LED turns from Red to Green, the battery voltage will be above 7.0VDC and you can return the battery charger back to the 12V charge mode.

### TESTING TO SEE IF CHARGER IS CHARGING

Before applying AC power to the charger, measure the battery with a digital volt meter and write the value down. Then plug the charger in making sure that within 5 seconds the charger is indicating that the charging process has begun (See WICKED SMART FEATURE: INITIALIZATION). Wait 30 seconds and measure the battery again with the digital volt meter. The battery voltage should be higher and slowly moving up.

#### WICKED SMART TIP

If you have a severely discharged battery, a battery that is below 4.5VDC (6V) or 9.0VDC (12V), it could be the result of a defective battery. Batteries that have been severely discharged as a result of an accidental load should respond quickly when current is applied to the battery, resulting in a sharp increase in battery voltage.

**Now That's Smart, Wicked Smart.™**

The NOCO Company ("NOCO") warrants that its Battery Charger products (the "Product") will be free from defects in material and workmanship for a period of five (5) years from the date of purchase (the "Warranty Period"). For defects reported during the Warranty Period, NOCO will, at its discretion, and subject to NOCO's technical support analysis, either repair or replace, for the fees set forth below, any Product manufactured by NOCO that contains such a defect. Replacement parts and products will be new or serviceably used, comparable in function and performance to the original part and warranted for the remainder of the original Warranty Period.

**THE FOREGOING LIMITED WARRANTY IS IN LIEU OF AND EXCLUDES ALL OTHER WARRANTIES NOT EXPRESSLY SET FORTH HEREIN, WHETHER EXPRESS OR IMPLIED BY OPERATION OF LAW OR OTHERWISE, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.**

**NOCO'S LIABILITY UNDER THIS LIMITED WARRANTY IS EXPRESSLY LIMITED TO REPLACEMENT (IN THE FORM AND UNDER THE TERMS ORIGINALLY SHIPPED), OR TO REPAIR, WHETHER SUCH CLAIMS ARE FOR BREACH OF WARRANTY OR FOR NEGLIGENCE. NOCO SHALL NOT BE LIABLE FOR ANY INCIDENTAL, CONSEQUENTIAL, OR SPECIAL LOSSES, DAMAGES OR EXPENSES OF ANY KIND, INCLUDING, WITHOUT LIMITATION, ANY SUCH LOSSES, DAMAGES, OR EXPENSES ARISING DIRECTLY OR INDIRECTLY FROM THE SALE, HANDLING, OR USE OF THE PRODUCT FROM ANY OTHER CAUSE RELATING THERETO, OR FROM PERSONAL INJURY OR LOSS OF PROFIT.**

Some states do not allow the exclusion or limitation of incidental or consequential damages or length of an implied warranty so the above limitation(s) or exclusion(s) may not apply. This Limited Warranty gives you specific legal rights and you may also have other legal rights which vary from state to state.

Continued On Next Page

This Limited Warranty is made to the original purchaser from NOCO and does not extend to any other person or entity and is not assignable. It is the obligation of the original purchaser to forward the Product, with the proof of purchase and completed Product registration, prepaid, to NOCO. All warranties should be sent to:

**The NOCO Company**  
 Attn: Warranty Department  
 30339 Diamond Parkway, #102  
 Glenwillow, OH 44139 USA

THE COSTS OF TRANSPORTING PRODUCTS TO NOCO FOR WARRANTY SERVICE IS THE RESPONSIBILITY OF THE ORIGINAL PURCHASER. THIS LIMITED WARRANTY IS VOID UNDER THE FOLLOWING CONDITIONS:

- 1.) The Product is misused, subjected to careless handling, or operated under conditions of extreme temperature, shock, or vibration beyond NOCO's recommendations for safe and effective use.
- 2.) The Product has not been installed, operated, or maintained in accordance with approved procedures.
- 3.) The Product is disassembled, altered, or repaired by anyone, except NOCO.
- 4.) The electrical connections to either the AC input or the DC output of the charger are modified without the express written consent of NOCO.
- 5.) The Product is subject to improper storage or accident.
- 6.) The original purchaser fails to complete and submit the Product registration online.

**THIS LIMITED WARRANTY DOES NOT COVER:**

- 1.) Normal wear and tear.
- 2.) Cosmetic damage that does not affect functionality.
- 3.) Products where the NOCO serial number is missing, altered, or defaced.

**LIMITED WARRANTY FEES**

These fees apply only to Product during the Warranty Period. The Limited Warranty is void either by elapsed time from date of purchase or from the conditions listed earlier in this document. Return Product with the appropriate documentation along with a check for the applicable fees, as set forth below. Make checks payable to The NOCO Company.

**\$USD**

	WITH RECEIPT		NO RECEIPT
	< 2.5 YEAR	2.5-5 YEARS	ANYTIME
<b>G750</b>	\$0.00	\$9.95	\$13.95
<b>G1100</b>	\$0.00	\$13.95	\$18.95
<b>G3500</b>	\$0.00	\$16.95	\$23.95
<b>G7200</b>	\$0.00	\$30.95	\$42.95
<b>G26000</b>	\$0.00	\$87.95	\$122.95

The Warranty Fee structure may change without notice. Please refer to our website for the current fee structure.

**REGISTER MY BATTERY CHARGER**

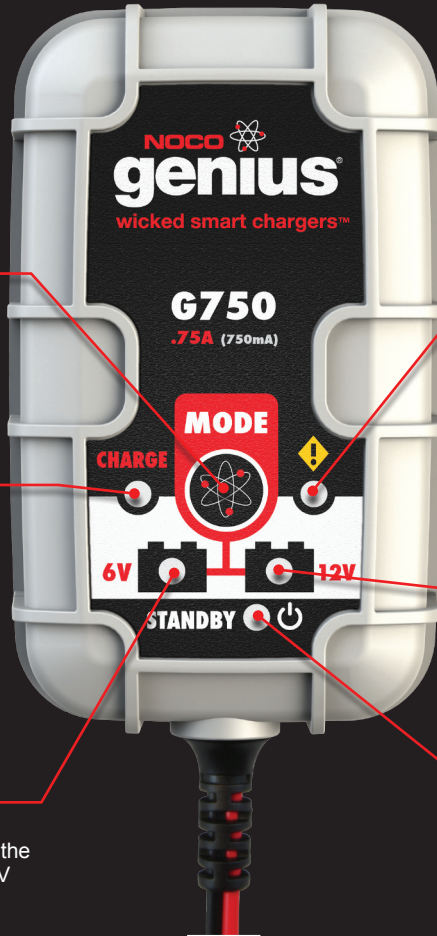
You must register the battery charger in order to validate the Limited Warranty.

To register your product on-line, please visit: [geniuschargers.com/register](http://geniuschargers.com/register). Complete the requested information and click "submit."

# Interface Guide

# G750

**.75A (750mA)**  
**6V & 12V**



**MODE BUTTON**  
The MODE button is used to select manually between 6V or 12V charging modes and STANDBY.

**ERROR LED**  
The ERROR LED (Orange) will illuminate when an error condition or reverse polarity is present.

**CHARGE LED**  
The CHARGE LED indicates the charging process. The CHARGE LED will be RED during the charging process and will turn GREEN when the battery is fully charged.

**12V MODE LED**  
The 12V MODE LED (Red) is illuminated when the battery charger is in the 12V charging mode.

**6V MODE LED**  
The 6V MODE LED (Red) is illuminated when the battery charger is in the 6V charging mode.

**STANDBY LED**  
The STANDBY LED (Green) illuminates when neither charging mode has been selected.

[geniuschargers.com](http://geniuschargers.com)

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