Trolling Charger Series
OWNER’S MANUAL

ON BOARD BATTERY CHARGERS

<table>
<thead>
<tr>
<th>Models</th>
<th>Amperage</th>
<th>No. Of Banks</th>
<th>Volts</th>
</tr>
</thead>
<tbody>
<tr>
<td>2607A</td>
<td>3, 3 Amps</td>
<td>2 Bank</td>
<td>12/24</td>
</tr>
<tr>
<td>2608A</td>
<td>6 Amps</td>
<td>1 Bank</td>
<td>12</td>
</tr>
<tr>
<td>2610A</td>
<td>5, 5 Amps</td>
<td>2 Banks</td>
<td>12</td>
</tr>
<tr>
<td>2611A</td>
<td>5, 5 Amps</td>
<td>2 Banks</td>
<td>12/24</td>
</tr>
</tbody>
</table>

See Connection diagrams for warnings.

IMPORTANT NOTICE
This manual contains important safety and operating instructions for the charger. Read the entire manual before using. Also read all instructions and cautions for and on the charger, batteries and equipment in the vicinity of the batteries.

1. INTRODUCING THE CHARGER
The Guest model 2607A, 2608A, 2610A and 2611A are designed to both recharge your batteries, and extend your battery’s life in applications where it is stored for long periods of time. They are “3-stage” electronic, completely automatic, lightweight, silent, battery chargers and each output produces 12 Volts DC at either a full 3, 6 or 5 Amps (model specific), while using much less AC current than other charger types. Unlike automotive “trickle” chargers, the 2607A, 2608A, 2610A and 2611A will not boil off the electrolytes in properly installed and maintained batteries. The red and green LED’s, mounted on the charger face, let you know the unit is recharging and maintaining your batteries. This sophisticated device is ideal for recharging and maintaining the 12VDC batteries in your boat, electric vehicle or cart, ATV, snowmobile or motorcycle.

SAVE THESE INSTRUCTIONS
WARNINGS

THIS CHARGER SHOULD BE USED TO CHARGE ONLY LEAD ACID, GEL CELL, OR AGM BATTERIES. USE ON OTHER BATTERY TYPES MAY EXPLODE AND CAUSE PERSONAL INJURY.

RISK OF EXPLOSIVE GASES! WORKING IN THE VICINITY OF LEAD ACID BATTERIES IS DANGEROUS. BATTERIES GENERATE EXPLOSIVE GASES DURING NORMAL OPERATION. THEREFORE IT IS OF THE UTMOST IMPORTANCE THAT EACH TIME BEFORE USING YOUR CHARGER YOU FOLLOW THE INSTRUCTIONS EXACTLY.

Personal Safety Precautions

Adhere to the following personal safety precautions when installing or working with the chargers:

1. Someone should be within voice range or close enough to come to your aid when you work near a lead-acid battery.
2. Have plenty of fresh water and soap nearby in case battery acid contacts skin, clothing, or eyes.
3. Wear complete eye protection and clothing protection. Avoid touching eyes while working near a battery.
4. If battery acid contacts skin or clothing, wash them immediately with soap and water. If acid enters the eye, flood the eye with cold, running water for at least ten minutes and get medical attention.
5. Never smoke or allow an open flame in the vicinity of the battery.
6. Do not drop a metal tool onto the battery. It may spark, short circuit the battery and may cause an explosion.
7. Remove all personal metal items such as rings, bracelets, necklaces, and watches when working near a lead-acid battery. A battery can produce short circuit currents high enough to weld a ring or the like to metal, causing a severe burn.

Preparing to Charge Precautions

Before charging a battery with the charger, read the following precautions:

1. Do NOT operate the charger if the cables or an LED is damaged.
2. Make sure all accessories on the product you are charging are OFF.
3. If the battery or batteries must be removed from the product, always remove the grounded terminal from the battery first.
4. Be sure the area around the battery is well ventilated while the battery is being charged. Gas can be forcefully blown away using a piece of cardboard or other non-metallic material as a “hand fan”.
5. Clean battery terminals. Be careful to keep corrosion from coming in contact with eyes.
6. Add distilled water in each cell until battery acid reaches levels specified by the battery manufacturer, if applicable. Do not overfill. For all batteries, carefully follow the manufacturer’s recharging instructions.

7. Never allow the ring terminals to touch each other.

8. **NEVER** charge a frozen battery.

9. Please be sure the DC system to which the charger is connected is not drawing excessive current from the battery for extended periods of time while the charger is operating. This is important to ensure the charger correctly transitions through each charging stage to finish with the float voltage level. If the DC system is drawing continuous current while charging, reduced life or damage to the battery may occur.

**AC Connection and Grounding Precautions**

**DANGER**

*DO NOT OPERATE THIS CHARGER WITH A TWO BLADED ADAPTER PLUG OR EXTENSION CORD. DOING SO CAN RESULT IN SERIOUS PERSONAL INJURY.*

*AFTER SECURING THE BATTERY CONNECTIONS, PLUG THE AC LINE CORD INTO AN AVAILABLE AC OUTLET THAT IS PROTECTED BY A GROUND FAULT CIRCUIT INTERRUPTER (GFCI) BREAKER.*

**CAUTION:** To reduce the risk of shock, connect only to a properly grounded outlet.

**NOTE:** AC Line Cord color coding is EU style. Line = Brown, Neutral = Blue, Ground = Green

**2. INSTALLING THE CHARGER**

**Choosing Charging Location**
The charger should have at least eight inches of unobstructed area on all sides of the unit for effective cooling. The case of this charger will become warm during operation. Because the charger is convection cooled (airflow over the back of the charger), the optimum mounting position for the charger is vertical. Mounting on its back on a horizontal surface may cause the charger to slightly reduce amperage output due to the thermal protection built in. Do not install the charger on carpeted, upholstered, or varnished surfaces.

**Mounting the Charger**
1. Use corrosion resistant 3/16” dia. or # 10 bolts, backed by a flat washer, and secured to the mounting surface with a split-ring lock washer.
2. Hold the charger to the mounting surface and mark the holes.
3. Remove the charger and drill the mounting holes.
4. Align the charger and assemble the mounting hardware. Secure.
Making DC Connections

Check polarity of the battery posts. The POSITIVE (POS., P, +) battery post usually has a larger diameter than the NEGATIVE (NEG., N, -) post. Connect Red charger output wire to POSITIVE post, Black charger wire to NEGATIVE. See below diagrams for more details.

Battery Size Recommendations
The recommended maximum battery size per 3 amp bank is 36AH.
The recommended maximum battery size per 5 amp bank is 60AH.
The recommended maximum battery size per 6 amp bank is 72AH.

2607A Connections

<table>
<thead>
<tr>
<th>Model</th>
<th>Output Volts</th>
<th>Output Amps</th>
<th>Banks</th>
<th>DC Cable Size</th>
<th>L x W x H</th>
<th>Input Volts</th>
<th>Input Amps Max</th>
</tr>
</thead>
<tbody>
<tr>
<td>2607A</td>
<td>12/24</td>
<td>3/3</td>
<td>2</td>
<td>4'/4'</td>
<td>3.5 x 6.4 x 2.25</td>
<td>115VAC 50/60Hz</td>
<td>2 Amp</td>
</tr>
</tbody>
</table>

Diagram 1. 2607A (3/3 Amps) used with 2 independent 12V Batteries
2607A Connection Warnings: For the 2607A, output 1 and output 2 may be connected in parallel for a 12 V 6 amp output. Both outputs may also be connected in series for a 24 V output, see below.

2607A Connections

Diagram 2. 2607A used in a 24V system
## 2608A Connections

<table>
<thead>
<tr>
<th>Model</th>
<th>Output Volts</th>
<th>Output Amps</th>
<th>Banks</th>
<th>DC Cable Size</th>
<th>Size (inches)</th>
<th>Input Volts</th>
<th>Input Amps Max</th>
</tr>
</thead>
<tbody>
<tr>
<td>2608A</td>
<td>12</td>
<td>6</td>
<td>1</td>
<td>4'</td>
<td>3.5 x 6.4 x 2.25</td>
<td>115VAC 50/60Hz</td>
<td>2 Amps</td>
</tr>
</tbody>
</table>

Diagram 3. 2608A (6 Amps) used with 1 12V Battery
2611A Connections

<table>
<thead>
<tr>
<th>Model</th>
<th>Output Volts</th>
<th>Output Amps</th>
<th>Banks</th>
<th>DC Cable Size</th>
<th>Size (inches)</th>
<th>Input Volts</th>
<th>Input Amps Max</th>
</tr>
</thead>
<tbody>
<tr>
<td>2611A</td>
<td>12/24</td>
<td>5/5</td>
<td>2</td>
<td>4'/4'</td>
<td>4.25 x 7 x 2.42</td>
<td>115VAC 50/60Hz</td>
<td>2.5 Amps</td>
</tr>
</tbody>
</table>

Diagram 4. 2611A (5/5 Amps) used with 2 independent 12V Batteries

2611A Connections: For the 2611A, Output 1 and output 2 may be connected in parallel for a 12 V 10 amp output. Output 1 and 2 may be connected in series for a 24 V system, see below.
2611A Connections

Diagram 5: 2611A used in a 24 V system
## 2610A Connections

<table>
<thead>
<tr>
<th>Model</th>
<th>Output Volts</th>
<th>Output Amps</th>
<th>Banks</th>
<th>DC Cable Size</th>
<th>Input Volts</th>
<th>Input Amps Max</th>
</tr>
</thead>
<tbody>
<tr>
<td>2610A</td>
<td>12</td>
<td>5/5</td>
<td>2</td>
<td>4.25 x 7 x 2.42</td>
<td>115VAC 50/60Hz</td>
<td>2.5 Amps</td>
</tr>
</tbody>
</table>

### Diagram 6: 2610A (5/5 Amps) used with 2 12V Batteries

2610A Connections: The 2610A can be used on 2 12 volt independent batteries. It may NOT be used for a 24 Volt system, the outputs may NOT be wired in series. The 2610A may be used to charge one single battery. When doing this, a 12 Gauge jumper wire must be added between output posts DC + #1 and DC + #2. See diagram below.
2610A Connections

Diagram 7: 2610A used in a single battery system

GUEST requires using inline fuses between the positive battery terminal connection and the charger output stud. Be sure to use a UL listed 14 or 15 amp fuse.
3. OPERATING THE CHARGER – 6 amp output

The LED Function Chart describes the charging process for any individual 6 Amp output.

<table>
<thead>
<tr>
<th>Display</th>
<th>Operating condition</th>
</tr>
</thead>
<tbody>
<tr>
<td>Red</td>
<td>When the red LED is on, it indicates that your batteries are discharged and is recharging them at the &quot;Charging&quot; rate (stage 1). This charging rate is 6 Amps. While the red LED is on, the voltage measured (with the charger on) will be approximately 11.5 to 13 Volts. If the red LED stays on for more than 24 hours, refer to Problem 1 in the troubleshooting section in this manual.</td>
</tr>
<tr>
<td>Green</td>
<td>When both the green and the red LED’s are on, it is charging at the &quot;Finishing&quot; rate. (stage 2). During this second charging stage, the charger holds the battery voltage at approximately 14.6 VDC, and then gradually reduces the amount of current (Amps) it delivers to the battery. By doing this, the battery is able to “absorb” the last 10% of charge as quickly as possible without becoming overheated. If both lights stay on longer than 24 hours, refer to Problem 2 in the troubleshooting section in this manual.</td>
</tr>
<tr>
<td>Red</td>
<td>When the battery approaches full charge, the charger switches into its third charging stage, gradually reducing the current feed to the batteries to as low as 0.1 Amps. At the same time, it reduces its output voltage to a “Float” or “Ready” charging rate of 13.3 VDC, indicated by the green LED light. This low “Float” or “Maintenance” voltage gently “tops off” your batteries, keeping them fully charged and ready until needed. The green LED indicates that your batteries are now fully charged and ready for use. If the green LED stays on when your battery is known to be low, refer to Problem 3 in the troubleshooting section in this manual.</td>
</tr>
</tbody>
</table>
**OPERATING THE CHARGER – 5 amp output**

The LED Function Chart describes the charging process for any individual 5 Amp output.

<table>
<thead>
<tr>
<th>Display</th>
<th>Operating condition</th>
</tr>
</thead>
<tbody>
<tr>
<td>Red</td>
<td>When the red LED is on, it indicates that your batteries are discharged and is recharging them at the &quot;Charging&quot; rate (stage 1). This charging rate is 5 Amps. While the red LED is on, the voltage measured (with the charger on) will be 11.5 to 13 Volts. If the red LED stays on for more than 24 hours, refer to Problem 1 in the troubleshooting section in this manual.</td>
</tr>
<tr>
<td>Green</td>
<td>When both the green and the red LED’s are on, it is charging at the &quot;Finishing&quot; rate. (stage 2). During this second charging stage, the charger holds the battery voltage at approximately 14.3 VDC, and then gradually reduces the amount of current (Amps) it delivers to the battery. By doing this, the battery is able to “absorb” the last 10% of charge as quickly as possible without becoming overheated. If both lights stay on longer than 24 hours, refer to Problem 2 in the troubleshooting section in this manual.</td>
</tr>
<tr>
<td>Red</td>
<td>When the battery approaches full charge, the charger switches into its third charging stage, gradually reducing the current feed to the batteries to as low as 0.1 Amps. At the same time, it reduces its output voltage to a “Float” or “Ready” charging rate of 13.3 VDC, indicated by the green LED light. This low “Float” or “Maintenance” voltage gently “tops off” your batteries, keeping them fully charged and ready until needed. The green LED indicates that your batteries are now fully charged and ready for use. If the green LED stays on when your battery is known to be low, refer to Problem 3 in the troubleshooting section in this manual.</td>
</tr>
</tbody>
</table>
OPERATING THE CHARGER – 3 amp output

The LED Function Chart describes the charging process for any individual 3 Amp output.

<table>
<thead>
<tr>
<th>Display</th>
<th>Operating condition</th>
</tr>
</thead>
<tbody>
<tr>
<td>Red</td>
<td>When the red LED is on, it indicates that your batteries are discharged and is recharging them at the &quot;Charging&quot; rate (stage 1). This charging rate is 3 Amps. While the red LED is on, the voltage measured (with the charger on) will be 11.5 to 13 Volts. If the red LED stays on for more than 24 hours, refer to Problem 1 in the troubleshooting section in this manual.</td>
</tr>
<tr>
<td>Green</td>
<td>When both the green and the red LED's are on, it is charging at the &quot;Finishing&quot; rate. (stage 2). During this second charging stage, the charger holds the battery voltage at approximately 14.6 VDC, and then gradually reduces the amount of current (Amps) it delivers to the battery. By doing this, the battery is able to “absorb” the last 10% of charge as quickly as possible without becoming overheated. If both lights stay on longer than 24 hours, refer to Problem 2 in the troubleshooting section in this manual.</td>
</tr>
<tr>
<td>Red</td>
<td>When the battery approaches full charge, the charger switches into its third charging stage, gradually reducing the current fed to the batteries to as low as 0.1 Amps. At the same time, it reduces its output voltage to a “Float” or “Ready” charging rate of 13.3 VDC, indicated by the green LED light. This low “Float” or “Maintenance” voltage gently “tops off” your batteries, keeping them fully charged and ready until needed. The green LED indicates that your batteries are now fully charged and ready for use. If the green LED stays on when your battery is known to be low, refer to Problem 3 in the troubleshooting section in this manual.</td>
</tr>
<tr>
<td>Green</td>
<td></td>
</tr>
</tbody>
</table>


## 4. TROUBLESHOOTING

<table>
<thead>
<tr>
<th>Problem</th>
<th>Cause</th>
<th>Solution</th>
</tr>
</thead>
</table>
| 1. Red LED stays on for more than 24 Hrs. | 1. One or more defective or damaged cells.  
2. Charger has reduced its output voltage below the normal level due to a DC overload or a DC short.  
3. On-board DC systems are drawing more current than the charger can replace. | 1. Load test the batteries and replace if necessary.  
2. Remove the source of the overload or short. Disconnect the charger’s black (NEGATIVE) ring terminal from the battery. Reapply AC power and the green LED only should now light.  
3. Turn off all DC equipment while charging. |
| 2. The red and green LED's stay on for more than 24 Hrs. | 1. On-board DC systems are drawing between 1.5 – 3.5A.  
2. One or more defective or damaged cells.  
3. Extremely low AC voltage at the battery charger. | 1. Turn off all DC equipment while charging.  
2. Load test the batteries and replace if necessary.  
3. Apply a higher AC voltage source or reduce the length of the extension cord.  
4. Check battery manufacturer’s specs on battery charging. |
| 3. Green LED stays on when the battery is known to be low. | 1. Open circuit breaker or DC output fuse.  
2. Faulty or contaminated terminal connections.  
3. One or more defective or damaged cells. | 1. Check connections to the battery, reset circuit breaker if equipped/replace fuse.  
2. Clean and tighten or repair all terminal connections.  
3. Load test the batteries and replace if necessary. |
| 3. Neither of the LED’s turn on when the AC power is applied. | 1. No AC power available at the charger  
2. Charger failure | 1. Connect AC power or reset the AC breaker on the main panel  
2. Return charger to the Guest Service Dept. |
5. MAINTAINING THE CHARGER
Periodically clean both battery terminals with baking soda and tighten all connections. No other maintenance on the charger is required.

6. SPECIFICATIONS

<table>
<thead>
<tr>
<th>Model</th>
<th>Output Volts</th>
<th>Output Amps</th>
<th>Banks</th>
<th>DC Cable Size</th>
<th>Size (inches) L x W x H</th>
<th>Input Volts</th>
<th>Input Amps Max</th>
</tr>
</thead>
<tbody>
<tr>
<td>2607A</td>
<td>12/24</td>
<td>3/3</td>
<td>2</td>
<td>4'/4'</td>
<td>3.5 x 6.4 x 2.25</td>
<td>115VAC 50/60Hz</td>
<td>2 Amps</td>
</tr>
<tr>
<td>2608A</td>
<td>12</td>
<td>6</td>
<td>1</td>
<td>4'</td>
<td>3.5 x 6.4 x 2.25</td>
<td>115VAC 50/60Hz</td>
<td>2 Amps</td>
</tr>
<tr>
<td>2610A</td>
<td>12</td>
<td>5/5</td>
<td>2</td>
<td>N/A</td>
<td>4.25 x 7 x 2.42</td>
<td>115VAC 50/60Hz</td>
<td>2.5 Amps</td>
</tr>
<tr>
<td>2611A</td>
<td>12/24</td>
<td>5/5</td>
<td>2</td>
<td>4'/4'</td>
<td>4.25 x 7 x 2.42</td>
<td>115VAC 50/60Hz</td>
<td>2.5 Amps</td>
</tr>
</tbody>
</table>

**FCC Class A EMC Notice**
This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. 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. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.
If this equipment does cause harmful interference to radio or television reception, which can be determined by turning this 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.
LIMITED WARRANTY
For two (2) years from the date of original purchase, The Guest Co. will, at its discretion, repair or replace for the original consumer, free of charge, any parts found defective in material or workmanship. All transportation charges under this warranty must be borne by the customer.

Proof of purchase is required: A computerized register receipt is required. Hand-written receipts are not accepted for warranty proof of purchase. In the absence of a receipt, warranty period will be calculated from date of manufacture printed or stamped on the product.

There is no other expressed warranty. Implied warranties, including those of merchantability and fitness for a particular purpose, are limited to two years from the date of purchase. This is the exclusive remedy and consequential damages are excluded where permitted by law.

The Guest Co. Tel: (203) 235-4421 Fax: (203) 235-0039
95 Research Parkway Email: info@guestco.com
Meriden, CT 06450, USA Website: www.guestco.com

727852 Rev F