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Guest 2720A

Guest ChargePro 10/10 On-Board Battery Charger

Model: 2720A

INTRODUCTION

The Guest ChargePro 10/10 On-Board Battery Charger (Model 2720A) is a high-frequency, digital charging system designed for marine and other demanding environments. It features dedicated battery charging, sensing, and control for each bank, ensuring optimal performance and longevity for your batteries. This manual provides essential information for the safe and effective installation, operation, and maintenance of your charger.



Image: The Guest ChargePro 10/10 On-Board Battery Charger, showcasing its compact design and connection ports.

SAFETY INFORMATION

Please read and understand all safety warnings and instructions before installing or operating this product. Failure to do so may result in injury or damage.

- **Waterproof and Shock Resistant:** The charger is 100% waterproof (IP67 rated) and shock resistant,

suitable for fresh and saltwater applications. However, ensure all connections are secure and protected.

- **Built-in Safety Features:** This charger includes protection against reverse polarity, over-current, over-voltage, over-temperature, and ignition. In-line fuses are provided for maximum DC wire protection. Do not bypass these safety features.
- **Battery Compatibility:** Designed for all 12-volt flooded and AGM lead-acid batteries. Do not use with other battery types unless explicitly stated by the manufacturer.
- **Ventilation:** Ensure adequate ventilation around the charger and batteries during operation to prevent heat buildup.
- **Proposition 65 Warning:** This product may contain materials cautioned by California Proposition 65.
- **Professional Installation Recommended:** If you are unsure about any installation steps, consult a qualified marine electrician or technician.

PRODUCT FEATURES

The Guest ChargePro 10/10 On-Board Battery Charger offers advanced features for reliable battery charging:

- 12V 20 amp 2 bank on-board battery charger.
- Dedicated battery charging, sensing, and control per bank.
- 100% Waterproof (IP67) and shock resistant for all fresh and saltwater applications.
- Built-in safety: reverse polarity, over-current, over-voltage, over-temperature, and ignition protection.
- In-line fuses for maximum DC wire protection.
- Fully automatic 5-stage performance charging with microprocessor and software control for precision.
- Expanded LED charge status monitor for easy readability.
- Wiring and battery fault detection.
- Auto-maintain energy saver mode.
- Low profile flangeless extruded aluminum housing.
- Up to 40% lighter than prior generations.
- Pre-wired for easy installation.
- For all 12 volt flooded and AGM lead acid batteries.



Image: Icons representing the charger's waterproof, shock-resistant, low-profile, and lightweight design.

SETUP AND INSTALLATION

The ChargePro 10/10 is designed for easy installation. Follow these general guidelines:

- 1. Mounting Location:** Choose a dry, well-ventilated location as close to the batteries as possible. Ensure the mounting surface is stable and can support the charger's weight. While the unit is waterproof, protecting it from direct exposure to extreme elements will prolong its life.
- 2. Battery Connections:** Connect the pre-wired DC output cables to your 12V flooded or AGM lead-acid batteries. Each bank's positive (red) and negative (black) wires should be connected to the corresponding battery terminals. Ensure connections are tight and secure. The in-line fuses must remain intact.



Image: Close-up of the pre-wired battery connection cables with ring terminals and in-line fuses.

- 3. AC Power Connection:** Plug the 6-foot AC input cord into a standard 120V AC outlet. Ensure the outlet is protected by a ground fault circuit interrupter (GFCI) if used in a wet environment.



Image: The Guest ChargePro charger installed within a boat's battery compartment, demonstrating a typical setup.

4. **Cable Management:** Route all cables safely, away from moving parts, sharp edges, and excessive heat. Secure cables with appropriate fasteners.

OPERATING INSTRUCTIONS

The ChargePro 10/10 operates automatically once connected to AC power and batteries. The LED indicators provide real-time status updates.

LED Status Indicators:

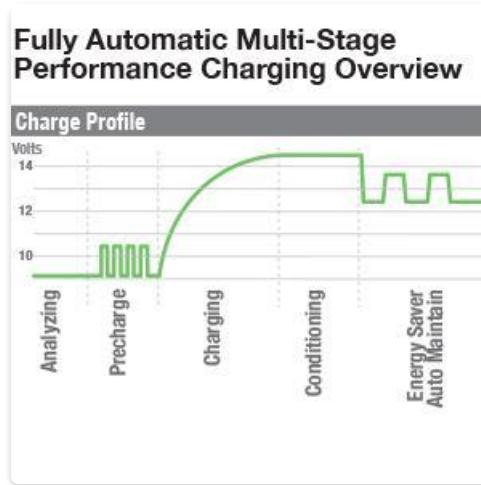


Image: Close-up of the charger's LED display panel, showing indicators for AC Power, Charging, Conditioning, Auto Maintain, and Fault for each battery bank.

- **AC Power (Blue LED):** Illuminates when the charger is connected to a live AC power source.
- **Charging (Red LED):** Indicates the battery is actively being charged.
- **Conditioning (Orange/Amber LED):** Indicates the charger is in the conditioning stage, optimizing battery performance.
- **Auto Maintain / Energy Saver Mode (Green LED):** Indicates the battery is fully charged and the charger is in maintenance mode, providing a float charge to keep the battery topped off without overcharging. This mode also conserves energy.
- **Fault (Red Circle LED):** Illuminates if a fault condition is detected (e.g., reverse polarity, short circuit, battery fault). Disconnect AC power and check connections if this light appears.

5-Stage Charging Process:

The ChargePro 10/10 utilizes a sophisticated 5-stage charging algorithm for optimal battery health:

1. **Analyzing:** The charger first assesses the battery's condition.
2. **Precharge:** If the battery voltage is very low, the charger will apply a gentle precharge to safely bring the voltage up.
3. **Charging (Bulk):** The main charging stage where the charger delivers maximum current to rapidly charge the battery.
4. **Conditioning (Absorption):** Once the battery reaches a certain voltage, the charger switches to a constant voltage, decreasing current to fully charge the battery and optimize cell balance.
5. **Auto Maintain / Energy Saver (Float):** After full charge, the charger maintains the battery at an optimal voltage, preventing self-discharge and ensuring readiness, while minimizing power consumption.



Image: A graph illustrating the fully automatic multi-stage performance charging overview, showing voltage changes through Analyzing, Precharge, Charging, Conditioning, and Energy Saver Auto Maintain stages.

MAINTENANCE

The Guest ChargePro 10/10 is designed for minimal maintenance. However, regular checks can ensure optimal performance and longevity:

- **Cleanliness:** Keep the charger clean and free of dust, dirt, and debris. Use a soft, dry cloth for cleaning. Do not use harsh chemicals or abrasive cleaners.
- **Connections:** Periodically inspect all AC and DC connections to ensure they are tight and free from corrosion. Loose connections can lead to poor performance or overheating.
- **Cables:** Check the condition of all cables for any signs of wear, cuts, or damage. Replace damaged cables immediately.
- **Ventilation:** Ensure that the area around the charger remains unobstructed to allow for proper airflow and cooling.

TROUBLESHOOTING

If you encounter issues with your Guest ChargePro 10/10, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
Charger not turning on (No AC Power LED)	No AC power, faulty outlet, tripped breaker/GFCI.	Check AC power source, test outlet with another device, reset breaker/GFCI.
Fault LED illuminated	Reverse polarity, short circuit, battery fault, over-temperature.	Disconnect AC power. Check battery connections for correct polarity. Inspect cables for shorts or damage. Allow charger to cool if it feels hot. Test battery condition.
Battery not charging or slow charging	Poor battery connection, deeply discharged battery, battery fault, incorrect battery type.	Ensure all battery connections are secure. Allow more time for deeply discharged batteries. Test battery health. Confirm battery is a 12V flooded or AGM lead-acid type.
Charger gets hot during operation	Normal operation (some heat is expected), poor ventilation, excessive load.	Ensure adequate airflow around the charger. If excessively hot or accompanied by a fault light, disconnect and inspect.

If the problem persists after attempting these solutions, contact Guest customer support for further assistance.

SPECIFICATIONS

Feature	Detail
Model	2720A
Brand	Guest
Output Voltage	12 Volts (DC)
Input Voltage	120 Volts (AC)
Current Rating	20 Amps (Total, 10A per bank)
Number of Banks	2
Battery Compatibility	12V Flooded and AGM Lead Acid Batteries
Waterproof Rating	IP67
Product Dimensions	19.05 x 6.1 x 32.77 cm (7.5 x 2.4 x 12.9 inches)
Item Weight	2.99 kg (6.59 lbs)
AC Cord Length	6 feet
Manufacturer	MARINCO

WARRANTY AND SUPPORT

The Guest ChargePro 10/10 On-Board Battery Charger comes with a **2-year warranty** from the date of purchase, covering defects in materials and workmanship under normal use.

For warranty claims, technical support, or any questions regarding your charger, please contact Guest customer service. Keep your proof of purchase for warranty validation.

Guest Customer Support:

Website: www.marinco.com/en/guest (or refer to product packaging for specific contact details)

Phone: Refer to product documentation or manufacturer's website for current contact numbers.

When contacting support, please have your product model number (2720A) and purchase date ready.