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› FORM 48V 15A Golf Cart Battery Charger for Yamaha G29 Drive & Drive 2 - Lead Acid User Manual

FORM ARROW (F48V15A201)

FORM 48V 15A Golf Cart Battery Charger User Manual

Model: ARROW (F48V15A201) | Brand: FORM

1. INTRODUCTION

This manual provides comprehensive instructions for the FORM 48 Volt 15 Amp Golf Cart Battery Charger, designed for use with Yamaha G29 Drive and Drive 2 golf carts equipped with lead-acid batteries. Please read this manual thoroughly before operating the charger to ensure safe and efficient use.



YAMAHA G29 & DRIVE 2 CONNECTOR

48 Volt Golf Cart Charger



Image 1.1: FORM 48V 15A Golf Cart Smart Charger with Yamaha G29 & Drive 2 Connector.

The FORM charger is engineered for reliability and convenience, featuring a lightweight design and advanced charging technology to optimize battery performance and lifespan.

2. SAFETY INFORMATION

WARNING: Always exercise extreme caution when working with batteries. Batteries contain corrosive acid and produce explosive hydrogen gas.

- Ensure adequate ventilation in the charging area to prevent the accumulation of hydrogen gas.
- Wear appropriate personal protective equipment, including safety glasses and gloves, to protect against battery acid splashes.
- Do not smoke or allow open flames or sparks near batteries, especially during charging.
- Always connect the charger to the golf cart battery before plugging it into an AC power outlet. Disconnect from AC power before disconnecting from the battery.
- Avoid short-circuiting battery terminals.
- Keep the charger dry and clean. Do not operate if the charger or cables are damaged.

3. PRODUCT FEATURES

- **48 Volt 15 Amp Output:** Provides efficient and faster charging for lead-acid golf cart batteries.
- **Lightweight and Durable:** Approximately 5.5 pounds, significantly lighter than many OEM chargers, and constructed with aluminum for durability.
- **Extended Cable Length:** Features over 16 feet of built-in power cables for flexible placement without needing extension cords.
- **WeatherShield Internal Coating:** Protects internal electrical components from water, dust, and corrosion, ensuring reliable performance in various environments. Rated IP67 waterproof.
- **Smart Charge Technology:** Incorporates a 'Set it & Forget it' maintenance mode that automatically transitions to optimize battery health once fully charged.
- **Improved Battery Sensing:** Optimized to enhance the lifespan and performance of lead-acid batteries.



Image 3.1: Advanced WeatherShield Coating for durability.

BEST IN CLASS



16ft Extended Reach Cord



**Don't Get Stuck
Needing Dangerous
Extension Cords**

Image 3.2: 16-foot extended reach cord for convenience.

4. SETUP

Before initial use, ensure your golf cart is compatible with this charger.

- **Compatibility:** This charger is specifically designed for Yamaha G29 Drive and Drive 2 golf carts (2007-2016 models) that use 48-volt lead-acid battery systems.

COMPATIBLE GOLF CARTS

YAMAHA G29 / DRIVE



2007 - 2016

48 Volt



*The make & model plate is located on the rear passenger side frame

*The last two serial numbers of your Yamaha manufacturers code is your carts manufacture year

Image 4.1: Compatible Yamaha G29 / Drive Golf Carts.

- **Mounting (Optional):** The charger includes wall mounting hardware for convenient storage. Choose a dry, well-ventilated location away from direct sunlight and heat sources.



Image 4.2: Wall mounting for organized storage.

- **Hose Holder:** A metal holster is included to contain the charger plug when not in use, preventing damage and keeping the area tidy.

5. OPERATING INSTRUCTIONS

The FORM charger utilizes a 5-stage smart charge technology to ensure optimal battery charging and longevity.

SET IT & FORGET IT

5 Stage Smart Charge Technology



Image 5.1: 5-Stage Smart Charge Technology.

1. **Connect to Golf Cart:** Plug the charger's output connector into the golf cart's charging port.
2. **Connect to AC Power:** Plug the charger's AC power cord into a standard 120V AC outlet.
3. **Charging Process:** The charger will automatically begin the charging cycle. The status lights on the charger indicate the current stage:
 - **Standby Mode (Flashing Red & Green):** Charger is ready to analyze batteries.
 - **Deep Charge (Flashing Red):** Initial charge for deeply discharged batteries.
 - **Absorption Charge (Flashing Yellow):** Finishing the charge at a slower rate to avoid overcharging.
 - **Finishing Charge (Flashing Green):** Topping off your batteries and optimizing for extended life.
 - **Maintenance Mode (Solid Green):** Once fully charged, the charger will maintain and optimize the battery continuously until it is disconnected.
4. **Disconnecting:** Once charging is complete (solid green light), first unplug the AC power cord from the wall outlet, then disconnect the charger from the golf cart.

Your browser does not support the video tag.

Video 5.2: This video provides a visual overview of the FORM 48V Waterproof Golf Cart Charger, demonstrating its compact design, charging status indicators, and ease of use, including the wall-mount feature and extended cable length.

6. MAINTENANCE

Regular maintenance ensures the longevity of your charger and golf cart batteries.

- **Battery Fluid Levels:** Periodically check the fluid levels in your lead-acid batteries. If low, add distilled water to the appropriate level. Always wear protective gear.
- **Battery Terminal Cleaning:** Keep battery terminals clean and free of corrosion to ensure good electrical contact.
- **Charger Cleaning:** Wipe the charger with a dry cloth to remove dust and debris. Do not use harsh chemicals or immerse in water.
- **Battery Testing:** To assess battery health, ensure batteries are fully charged and at room temperature. You can use a digital voltmeter to check individual battery voltage (e.g., 6.2-6.3V for a 6V battery, 8.2-8.3V for an 8V battery, or slightly over 12V for a 12V battery). A significant drop in voltage for one battery indicates a potential issue. For a more detailed assessment, a hydrometer can be used to check the specific gravity of the battery fluid in each cell.

7. TROUBLESHOOTING

If you encounter issues with your FORM charger, consider the following:

- **Charger Not Activating:** Ensure both the golf cart connector and the AC power cord are securely plugged in. Check the AC outlet for power.
- **Slow Charging:** Verify that the charger is correctly connected and that the golf cart's battery system is compatible. Ensure batteries are not severely discharged or damaged.
- **No Green Light (Maintenance Mode):** If the charger does not reach the solid green maintenance mode, it may indicate an issue with the batteries not reaching full charge, or a fault within the battery pack. Refer to battery testing procedures.
- **Unusual Noises or Odors:** Immediately disconnect the charger from both AC power and the golf cart. Contact customer support.

8. SPECIFICATIONS

Specification	Detail
Brand	FORM
Model Name	ARROW
Manufacturer Part Number	F48V15A201
ASIN	B0859KVF7L
Output Voltage	48 Volts (DC)
Output Current	15 Amps
Item Weight	5.5 pounds
Product Dimensions	8.25 x 4.75 x 2.75 inches
Waterproof Rating	IP67
Compatible Golf Carts	Yamaha G29 Drive & Drive 2 (Lead Acid)

9. WARRANTY AND SUPPORT

FORM provides a 24-month warranty for this product. For any questions, troubleshooting assistance, or warranty claims, please contact FORM's USA-based customer support. Additional help articles and troubleshooting videos may be available on the manufacturer's website.