GYS 29668

GYSFLASH 30.12 PL Smart Charger User Manual

Brand: GYS | Model: 29668

1. Introduction

Welcome to the user manual for the GYSFLASH 30.12 PL, a versatile smart charger designed for 12V lead-acid and lithium iron phosphate (LiFePO4) batteries. This manual provides essential information for safe and effective operation, setup, and maintenance of your charger. Please read this manual thoroughly before using the device.

2. Important Safety Instructions

To ensure safe operation and prevent damage to the charger or battery, observe the following safety precautions:

- Always read the entire instruction manual before operating the charger.
- Ensure adequate ventilation during charging to prevent heat buildup.
- Avoid short-circuiting the charging clamps.
- The charger is equipped with reverse polarity protection; however, always connect the red (+) clamp to the positive (+) terminal and the black (-) clamp to the negative (-) terminal.
- Disconnect the charger from the mains power before connecting or disconnecting the battery clamps.
- Do not expose the charger to rain or excessive moisture.
- Keep out of reach of children.
- Do not attempt to charge non-rechargeable batteries.

3. Product Overview

The GYSFLASH 30.12 PL is a high-power, auto-sensing battery support unit with advanced features for various battery types and applications.

Key Features:

- **Double Technology:** Compatible with both 12V lead-acid (GEL, AGM, liquid, calcium) and lithium iron phosphate (LiFePO4) batteries.
- **High Power Output:** Delivers a continuous 30 A at 100% duty cycle (40°C).

- **Three Charging Currents:** Selectable charging currents of 7 A, 15 A, and 30 A to match battery capacity.
- **Showroom Mode:** Provides a stable power supply of up to 30A for maintaining battery charge in exhibited vehicles or during diagnostic procedures.
- **Supply Mode:** Offers a stable on-board power supply, useful for maintaining vehicle electronics during battery changes or software updates.
- **Wide Battery Capacity Range:** Charges 12V lead-acid batteries from 15 Ah to 375 Ah and LiFePO4 batteries from 7 Ah to 375 Ah.
- **Memory Backup:** Retains vehicle memory information during battery removal.
- **Optimized Battery Retention:** Can remain connected to the battery during hibernation with an auto-restart function in case of power failure.
- **Low Voltage Charging:** Capable of initiating charging for batteries as low as 2 V.

Figure 1: Front panel of the GYSFLASH 30.12 PL charger, displaying mode selection, battery type indicators, and charging current options.

4. Setup and Connection

4.1 Unpacking

Carefully unpack the GYSFLASH 30.12 PL charger and inspect for any visible damage. Retain the packaging for future storage or transport.

4.2 Connecting to the Battery

1. Ensure the charger's power cord is disconnected from the mains power outlet.
2. Connect the **red (+)** charging clamp securely to the **positive (+)** terminal of the battery.
3. Connect the **black (-)** charging clamp securely to the **negative (-)** terminal of the battery.
4. Verify that both connections are firm and free from corrosion.

4.3 Connecting to Mains Power

Once the battery clamps are securely connected, plug the charger's power cord into a suitable 230V AC, 50/60Hz power outlet.

Figure 2: GYSFLASH 30.12 PL connected to a vehicle battery for charging or support.

5. Operating Instructions

5.1 Automatic Charging

The GYSFLASH 30.12 PL features an integrated temperature sensor that automatically adjusts charging parameters based on the ambient temperature, optimizing charging efficiency and battery life.

5.2 Mode Selection

Use the **"MODE"** button on the charger's front panel to select the appropriate charging program for your battery type:

- **Pb (Lead-Acid):** Select this mode for 12V lead-acid batteries, including GEL, AGM, liquid, and calcium types. Suitable for capacities from 15 Ah to 375 Ah.
- **LiFePO4 (Lithium Iron Phosphate):** Select this mode for 12V lithium iron phosphate batteries. Suitable for capacities from 7 Ah to 375 Ah.

5.3 Charging Current Selection

After selecting the battery type, choose one of the three available charging currents (7 A, 15 A, or 30 A) based on the battery's capacity and desired charging speed. Higher currents charge faster but should be appropriate for the battery's specifications.

5.4 Showroom Mode

This mode is designed to provide a stable power supply of up to 30A. It is ideal for maintaining the battery charge in vehicles displayed in showrooms or during diagnostic procedures, preventing battery drain without overcharging.

5.5 Supply Mode

The Supply Mode provides a stable on-board power supply to the vehicle's electrical system. This is particularly useful for maintaining power to vehicle electronics when the battery is being changed or during software updates, preventing loss of settings or data.

6. Charging Process

1. Connect the charger to the battery terminals, ensuring correct polarity (red to positive, black to negative).

2. Plug the charger's power cord into a mains power outlet.
3. Press the **"MODE"** button to select the appropriate battery type (Pb for lead-acid or LiFePO4 for lithium).
4. Select the desired charging current (7 A, 15 A, or 30 A) based on your battery's requirements.
5. The charger will automatically begin the charging cycle. Monitor the progress indicators on the display.
6. Once the charging cycle is complete, first disconnect the charger from the mains power outlet.
7. Then, disconnect the black (-) clamp from the battery, followed by the red (+) clamp.

7. Maintenance

- Keep the charger clean and dry. Wipe the casing with a soft, damp cloth. Do not use harsh chemicals or abrasives.
- Store the charger in a cool, dry place when not in use, away from direct sunlight and extreme temperatures.
- Do not attempt to open the charger casing or perform any internal repairs. Refer all servicing to qualified personnel.
- Regularly inspect the charging cables and clamps for any signs of damage, wear, or corrosion. Replace damaged components immediately.

8. Troubleshooting

If you encounter issues with your GYSFLASH 30.12 PL, refer to the table below for common problems and solutions.

Problem	Possible Cause	Solution
Charger not turning on	No mains power; Faulty power cord/outlet	Check power connection; Try a different outlet; Inspect power cord for damage.
Charging not starting	Incorrect battery connection (reverse polarity); Battery voltage too low; Incorrect mode selected	Verify correct polarity; Ensure secure connections; Select correct battery type and current.
Error indicator light is on	Internal fault; Battery fault; Overheating	Disconnect charger from mains and battery, then reconnect; Allow charger to cool down; If problem persists, contact support.
Charger gets hot	Normal operation; Insufficient ventilation; Overload	Ensure adequate ventilation around the charger; Reduce charging current if possible.

9. Technical Specifications

Specification	Value
Brand	GYS
Model Number	29668
Input Voltage	230V AC, 50/60Hz
Output Voltage	12 Volts (DC)

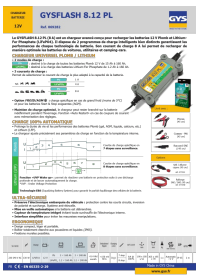
Specification	Value
Charging Current	7A, 15A, 30A
Compatible Battery Types	12V Lead-Acid (GEL, AGM, Liquid, Calcium), 12V LiFePO4
Lead-Acid Battery Capacity	15 Ah to 375 Ah
LiFePO4 Battery Capacity	7 Ah to 375 Ah
Product Dimensions (LxWxH)	7.3 x 19 x 19 cm
Item Weight	2.21 kg
Safety Standards	CE

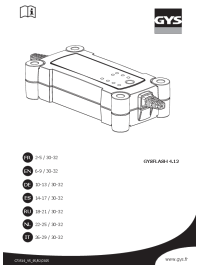
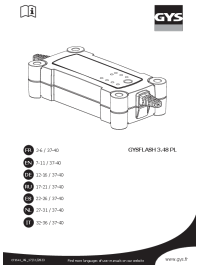
10. Warranty and Support

The GYSFLASH 30.12 PL is covered by a **2-year local warranty**. For technical assistance, warranty claims, or service inquiries, please contact your authorized GYS dealer or the official GYS support center. Please retain your proof of purchase for warranty validation.

For additional information and resources, please visit the official GYS website.

Related Documents - 29668

	GYS GYSFLASH PRO Battery Support Units: Advanced Charging Solutions for Professionals Discover the GYS GYSFLASH PRO range of smart battery support units and chargers. Designed for automotive and industrial professionals, these advanced units offer reliable power, connectivity, and comprehensive battery maintenance features. Explore models, specifications, and accessories.
	GYSFLASH 8.12 PL 12V Battery Charger - Lead Acid & Lithium The GYSFLASH 8.12 PL is an advanced 12V battery charger for Lead-acid and LiFePO4 batteries. Features 8A charging current, multiple modes, automatic charging, and advanced safety features for cars, utility vehicles, and campers.
	GYSFLASH 103.12 CNT FV 12V 100A Smart Battery Charger | GYS Comprehensive overview of the GYSFLASH 103.12 CNT FV, a 12V 100A smart battery charger with inverter technology. Features multiple operating modes, USB connectivity for customization, and advanced safety for lead-acid and lithium batteries.

	[GYS DIAG-BATIUM 100,12 FV 12V Battery Charger and Support Unit] The GYS DIAG-BATIUM 100,12 FV is a professional 12V battery charger and support unit for automotive workshops. It offers optimal charge maintenance, diagnostics, and power supply with advanced features for lead-acid and lithium batteries, ensuring battery health and efficient vehicle service.
	[GYSFLASH 4.12: Smart Battery Charger - User Manual & Guide] Comprehensive guide to the GYSFLASH 4.12 battery charger, covering safety instructions, operating modes, charging steps, troubleshooting, and technical specifications for optimal battery maintenance.
	[Manuel d'utilisation GYSFLASH 3.48 PL : Chargeur de Batterie Intelligent pour Plomb et Lithium] Découvrez le GYSFLASH 3.48 PL, un chargeur de batterie polyvalent et intelligent. Ce manuel détaille ses fonctionnalités avancées pour les batteries au plomb et lithium, ses cycles de charge optimisés, ses protections de sécurité et son capteur de température pour une charge efficace et sûre.