

SolaMr P15

SolaMr P15 15 Amp 12V/24V Smart Battery Charger Instruction Manual

Model: P15

INTRODUCTION

The SolaMr P15 Smart Battery Charger is a versatile and intelligent device designed to charge and maintain various 12V and 24V batteries, including Lithium, LiFePO4, and Lead-Acid types (AGM, Gel, SLA, Flooded, WET, EFB). Featuring a 9-stage charging process and an intuitive LCD screen, it ensures efficient and safe battery management for cars, trucks, motorcycles, RVs, and more. This manual provides essential information for proper setup, operation, and maintenance of your P15 charger.

SAFETY INFORMATION

- Always read the entire manual before using the charger.
- Ensure proper ventilation during charging to prevent gas accumulation.
- Connect the battery clamps to the battery terminals before plugging the charger into an AC outlet.
- Disconnect the charger from the AC outlet before removing battery clamps.
- Connect the RED (+) clamp to the positive battery terminal and the BLACK (-) clamp to the negative battery terminal.
- Avoid sparks or flames near the battery during charging.
- Do not charge frozen or damaged batteries.
- Keep out of reach of children.
- This charger is designed for 12V and 24V batteries only. Do not use it for other voltage systems.

PRODUCT OVERVIEW

The SolaMr P15 Smart Battery Charger is equipped with an LCD screen for clear display of charging status, voltage, current, and temperature. It features multiple protection mechanisms including overheating, low voltage, short circuit, reverse connection, overcurrent, and overvoltage protection. The charger also includes a built-in cooling fan for efficient heat dissipation.



Figure 1: SolaMr P15 Smart Battery Charger highlighting its multiple protection features including overheating, low voltage, short circuit, reverse connection, overcurrent, and overvoltage protection.

The charger supports a wide range of battery types and applications, making it a versatile tool for various vehicles and equipment.

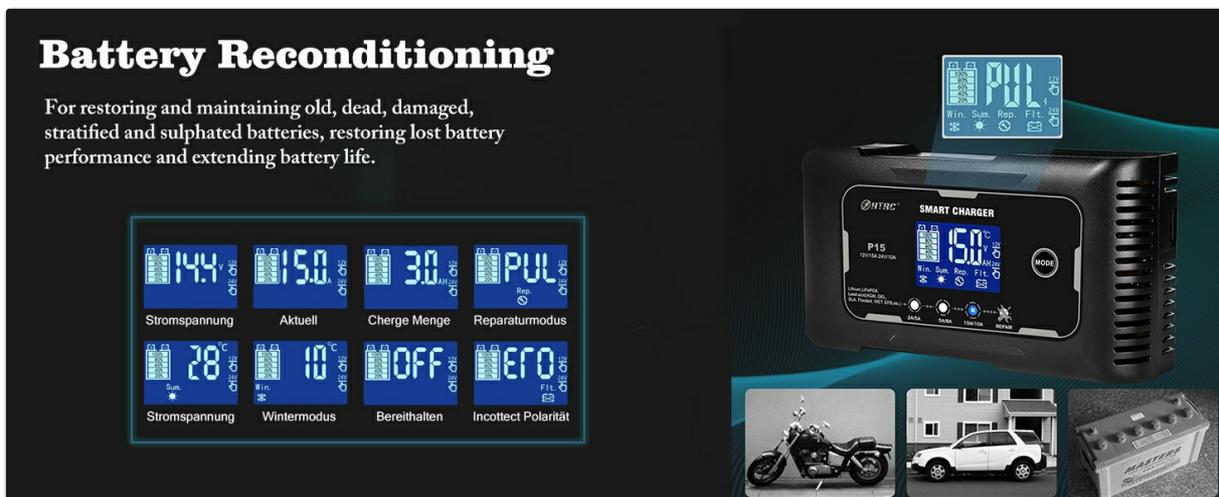


Figure 2: High compatibility of the SolaMr P15 charger, supporting cars, SUVs, motorcycles, RVs, vans, lawnmowers, and motorboats.

SETUP

1. **Connect Battery Clamps:** Attach the RED (+) clamp to the positive terminal of the battery and the BLACK (-) clamp to the negative terminal. Ensure a secure connection.
2. **Plug into Power:** Once the clamps are securely connected to the battery, plug the charger's AC power cord into a standard 120V AC outlet. The charger will power on and display battery information.
3. **Select Charging Mode:** Use the 'MODE' button on the charger to select the appropriate battery type (STD, LiFePO4, AGM/GEL, Motorcycle) and charging current (2A/5A, 5A/8A, 15A/10A) or Repair Mode. The charger automatically detects 12V or 24V.

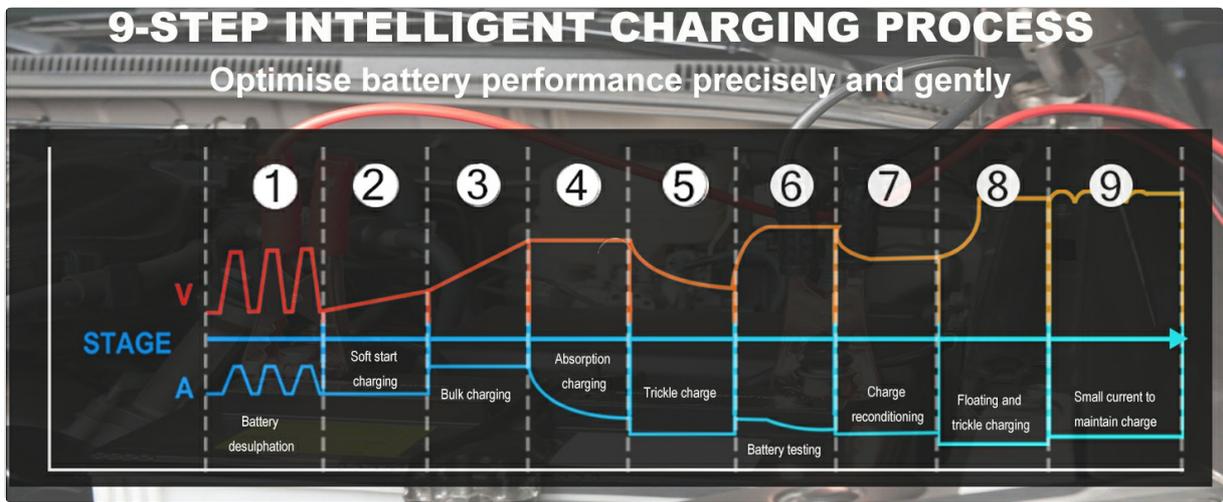


Figure 3: Simple operation of the SolaMr P15 charger, showing a user connecting it to a car battery.

Setup Demonstration Video

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Video 1: Official SolaMr demonstration of connecting the car battery charger and initiating the charging process.

OPERATING INSTRUCTIONS

The SolaMr P15 charger offers various modes and an intelligent 9-stage charging process to optimize battery performance and longevity.

Selecting Charging Modes

Press the 'MODE' button to cycle through the available charging options:

- **STD (Standard):** For conventional lead-acid batteries.
- **LiFePO4:** Specifically for Lithium Iron Phosphate batteries.
- **AGM/GEL:** For Absorbed Glass Mat and Gel batteries.
- **Motorcycle:** For smaller 12V batteries typically found in motorcycles.
- **Repair Mode:** Used for restoring and maintaining old, damaged, stratified, and sulfated lead-acid batteries. This mode can take up to 16 hours.

Figure 4: One-button switching between various charging modes and current levels (2A/5A, 5A/8A, 15A/10A, Repair).

Intelligent Features

- **Automatic Temperature Detection:** The charger automatically adjusts charging parameters based on ambient temperature. It switches to 'Summer Mode' (reduces charging voltage) if the temperature is above 28°C and 'Winter Mode' (increases charging voltage) if below 10°C.
- **9-Step Intelligent Charging Process:** This multi-stage process optimizes battery performance and extends battery life by precisely and gently charging. Stages include battery desulfation, soft start charging, bulk charging, absorption charging, trickle charge, battery testing, charge reconditioning, floating and trickle charging, and small current to maintain charge.



Figure 5: The charger's thermal compensation feature automatically adjusts charging for temperatures above 28°C (Summer Mode) or below 10°C (Winter Mode).



Figure 6: Repair Mode function for restoring low voltage, idle, or old batteries.

Operation Demonstration Videos

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Video 2: A seller's demonstration of the 15-Amp 12V/24V Smart Battery Charger, including unboxing and usage instructions.

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Video 3: A seller's overview of the NEXPEAK NC215 15 Amp LiFePO4 Lead-acid Battery Charger, showcasing its features and operation.

MAINTENANCE

- Keep the charger clean and dry. Wipe with a soft, damp cloth.
- Store the charger in a cool, dry place when not in use.
- Regularly inspect the cables and clamps for any damage. Replace if necessary.

TROUBLESHOOTING

- **Charger not turning on:** Ensure the AC power cord is securely plugged into a live outlet and the battery clamps are correctly connected to the battery terminals.
- **Charging not starting:** Verify that the correct charging mode for your battery type has been selected. Check for proper clamp connection.
- **Error message on display:** Refer to the specific error code in the full product manual (if available) or check for common issues like reverse polarity (the charger has protection for this), short circuit, or an extremely low voltage battery that may require Repair Mode.
- **Battery not fully charging:** Ensure the battery is not severely damaged or sulfated. Try using the Repair Mode for lead-acid batteries.

SPECIFICATIONS

Feature	Detail
Model	P15
Brand	SolaMr
Product Dimensions	3.94 x 3.94 x 3.94 inches (1"D x 1"W x 1"H)
Item Weight	14.8 ounces (420 Grams)
Output Voltage	24 Volts (DC)
Color	Black
Battery Types Supported	Lithium, LiFePO4, Lead-Acid (AGM/Gel/SLA, Flooded, WET, EFB)
Charging Current	Up to 15 Amps (12V), 10 Amps (24V)
Charging Stages	9-Stage Intelligent Charging
Protection Features	Overheating, Low Voltage, Short Circuit, Reverse Connection, Overcurrent, Overvoltage
Special Features	Automatic Temperature Compensation (Summer/Winter Mode), Repair Mode

WARRANTY AND SUPPORT

For warranty information, technical support, or service inquiries, please refer to the documentation included with your product or contact SolaMr customer service directly. Keep your purchase receipt for warranty claims.