

Strex SP227

Strex SP227 12/24V 5/10/25A Smart Industrial Battery Charger User Manual

Model: SP227



1. INTRODUCTION

The Strex SP227 is an advanced, intelligent battery charger designed for a wide range of 12V and 24V lead-acid batteries, including AGM, GEL, and Calcium types. This powerful charger offers 5A, 10A, and 25A charging options, making it suitable for various vehicles such as cars, motorcycles, trucks, boats, and agricultural vehicles. Its modern LCD screen provides real-time battery status, and the multi-protection features ensure safe and efficient operation. This manual provides essential information for the proper setup, operation, and maintenance of your Strex SP227 battery charger.

2. SAFETY INFORMATION

Always prioritize safety when operating battery charging equipment. Failure to follow these safety guidelines may result in electric shock, fire, or serious injury.

- Read all instructions before using the charger.
- Ensure the charging area is well-ventilated.
- Wear eye protection and protective clothing when working with batteries.
- Keep children and unauthorized persons away from the charging area.
- Do not charge frozen batteries.
- Do not expose the charger to rain or excessive moisture.
- Disconnect the AC power before making or breaking connections to the battery.
- Avoid sparks or flames near the battery; batteries can produce explosive gases.
- The charger features multi-protection against overheating, short circuits, reverse polarity, over-discharge, over-voltage, and under-voltage. However, always double-check connections.
- The charger housing is flame-resistant for added safety.

3. PRODUCT OVERVIEW

The Strex SP227 charger is designed for ease of use and durability. Below are key components and features.



Figure 3.1: Front view of the Strex SP227 Smart Battery Charger, showing the LCD display and control buttons.

3.1 Key Features

- **Smart Digital LCD Display:** Shows charging voltage, current, battery type, and battery capacity percentage.
- **Multi-Protection:** Includes safeguards against overheating, short circuits, reverse polarity, over-discharge, over-voltage, and under-voltage.
- **7-Stage Charging Program:** Optimizes battery charging for efficiency and longevity.
- **Smart Repair Function:** Helps to restore deeply discharged or sulfated batteries.
- **Compact and Durable Design:** Features a foldable handle with anti-slip finish and an aluminum housing for shock resistance. Dimensions: 19.5 x 19.5 x 12 cm.
- **Innovative Cooling System:** Automatically activates additional cooling when necessary.

INNOVATIEF KOELSYSTEEM

**BEGINT AUTOMATISCH EXTRA
TE KOELEN WANNEER NODIG**



**ROTEERBAAR
HANDVAT**



Figure 3.2: The intelligent LCD display provides real-time information on charging status, including current, voltage, battery type, and charge level.

STREX ACCULADER 25A

GESCHIKT VOOR ALLE VOERTUIGEN



EN MEER



**12/24
VOLT**



**KORTSLUITING
BESCHERMING**



**LAAGSPANNING
BESCHERMING**



**POLARITEIT
BESCHERMING**



**TEMPERATUUR
BESCHERMING**



**OVERSPANNINGS
BESCHERMING**



**OVER ONTLADING
BESCHERMING**

Figure 3.3: Visual representation of the multi-protection features integrated into the Strex SP227 charger, ensuring safe operation.



Figure 3.4: The Smart Repair Function, designed to extend battery life by addressing issues like sulfation.

4. SETUP

Follow these steps to set up your Strex SP227 battery charger:

1. **Prepare the Battery:** Ensure the battery terminals are clean and free of corrosion. If necessary, clean them with a wire brush and a baking soda solution.
2. **Connect the Charger to the Battery:**
 - Connect the RED (+) clamp to the positive (+) battery terminal.
 - Connect the BLACK (-) clamp to the negative (-) battery terminal.
 - Ensure a secure connection.
3. **Connect to Power:** Plug the charger's AC power cord into a standard electrical outlet (100-240V AC).
4. **Initial Display:** The LCD screen will illuminate, displaying the current battery voltage and automatically identifying the battery type (12V or 24V).



IN DE DOOS



● Acculader



● Verpakking



● Handleiding

Figure 4.1: Proper connection of the charger clamps to a vehicle battery for charging.

5. OPERATING INSTRUCTIONS

The Strex SP227 charger operates automatically once connected. However, you can select specific charging currents and modes.

5.1 Automatic Charging

After connecting the charger to the battery and power, the charger will automatically detect the battery voltage (12V or 24V) and begin the charging process according to its intelligent 7-stage program. The LCD display will show the charging progress.

5.2 Selecting Charging Current (5A, 10A, 25A)

Press the "CURRENT" button on the charger to cycle through the available charging current options: 5A, 10A, and 25A. Select the appropriate current based on your battery's capacity and manufacturer recommendations. Higher currents charge faster but may not be suitable for smaller batteries.

5.3 Repair Mode

If your battery is deeply discharged or shows signs of sulfation, the "REPAIR" mode can be used to attempt reconditioning. Press the "REPAIR" button to activate this function. The charger will enter a specialized cycle to try and restore the battery's capacity. This process may take several hours.

5.4 7-Stage Charging Program

The charger utilizes a 7-stage charging program to optimize battery health and charging efficiency:

1. **Desulfation:** Uses pulse charging to break down sulfates in deeply discharged batteries.
2. **Soft Start:** Gradually introduces current to protect the battery.
3. **Bulk Charge:** Charges the battery to approximately 80% capacity at maximum current.
4. **Absorption:** Charges the battery to 100% at a decreasing current.
5. **Battery Test:** Checks the battery's ability to hold a charge.
6. **Recondition:** Applies a higher voltage to equalize cells and improve battery life (often part of repair mode).
7. **Float/Maintenance:** Maintains the battery at full charge with a low, constant voltage.

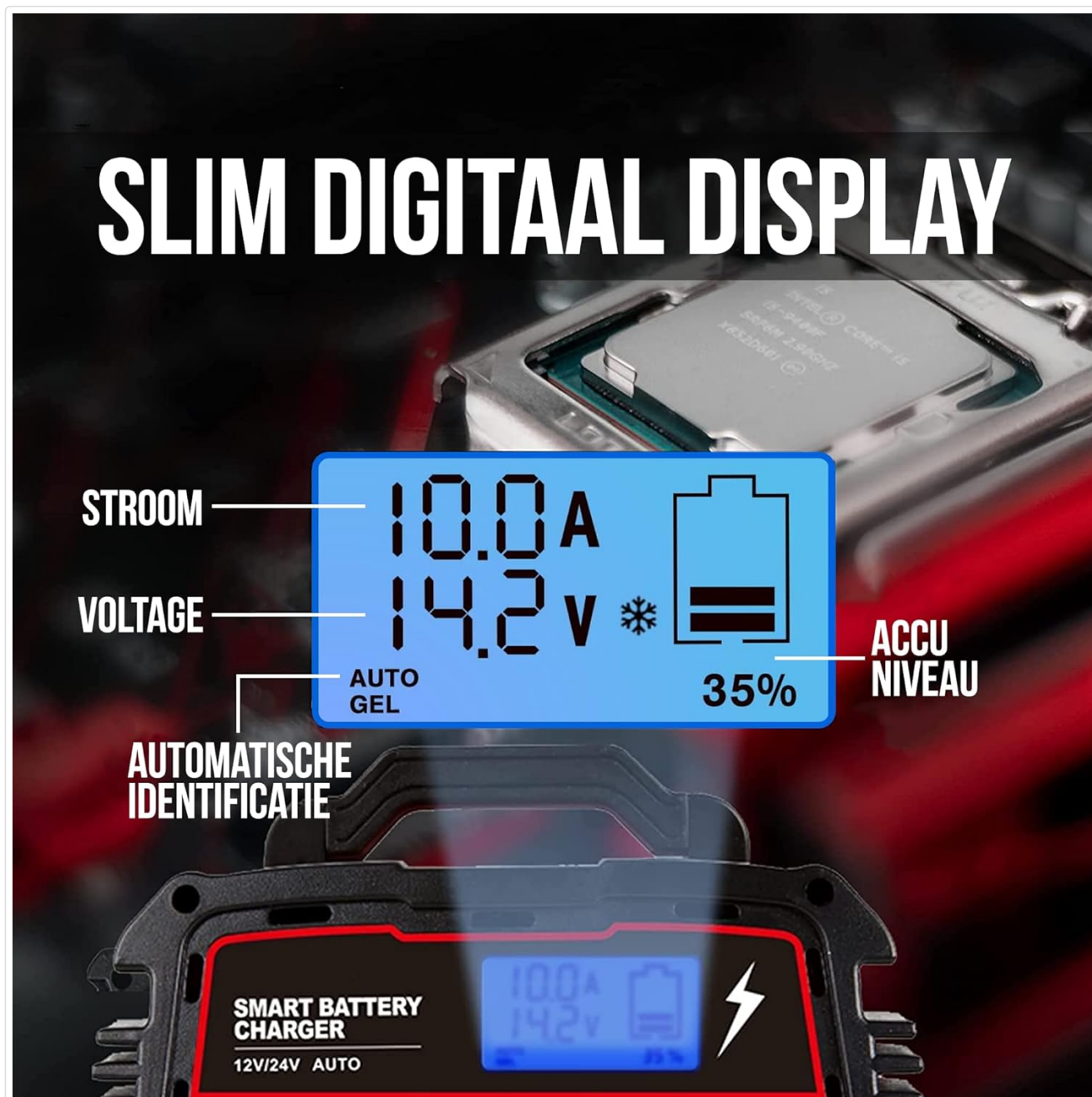


Figure 5.1: Diagram illustrating the 7-stage charging process, from desulfation to float/maintenance.

6. MAINTENANCE

Proper maintenance ensures the longevity and reliable operation of your Strex SP227 battery charger.

- **Cleaning:** Disconnect the charger from power and battery before cleaning. Wipe the exterior with a soft, dry cloth. Do not use harsh chemicals or abrasives.
- **Storage:** Store the charger in a cool, dry place when not in use. Ensure cables are neatly coiled and not kinked.
- **Cable Inspection:** Regularly inspect the power cord and charging cables for any signs of damage, cuts, or fraying. Do not use if damaged.
- **Ventilation:** Ensure the cooling vents are not obstructed during operation to allow for proper heat dissipation. The innovative cooling system should manage heat.

7. TROUBLESHOOTING

If you encounter issues with your Strex SP227 charger, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Charger not turning on.	No power from outlet; loose connection; internal fault.	Check power outlet with another device. Ensure AC cord is securely plugged in. If problem persists, contact support.
Charger not charging battery.	Incorrect battery connection (reverse polarity); battery too deeply discharged; battery fault.	Verify positive (+) and negative (-) clamp connections. Try "REPAIR" mode for deeply discharged batteries. If battery is faulty, it may need replacement.
LCD display shows error code or abnormal readings.	Internal fault; battery issue; connection problem.	Disconnect charger from power and battery, then reconnect. If error persists, consult the manual for specific error codes (if available) or contact support.
Charger gets hot during operation.	Normal operation (especially at high current); obstructed ventilation.	Some heat is normal. Ensure cooling vents are clear. The innovative cooling system should manage heat. If overheating is excessive, disconnect and allow to cool.

For issues not listed here, or if solutions do not resolve the problem, please contact Strex customer support.

8. SPECIFICATIONS

Feature	Detail
Model Number	SP227
Brand	Strex
AC Input Voltage	100-240V AC (Standard Wall Outlet)

Feature	Detail
DC Output Voltage	12V / 24V DC (Automatic Detection)
Charging Current	5A / 10A / 25A (Selectable)
Compatible Battery Types	Lead-Acid (Wet, MF, Ca/Ca, AGM, GEL)
Dimensions (L x W x H)	19.5 x 19.5 x 12 cm
Weight	1800 Grams
Color	Black/Red

9. WARRANTY AND SUPPORT




Information regarding specific warranty terms, availability of spare parts, and software updates for the Strex SP227 charger is not available in the provided product data. For warranty claims, technical support, or inquiries about spare parts, please contact the retailer or manufacturer directly using the contact information provided at the point of purchase or on the product packaging.



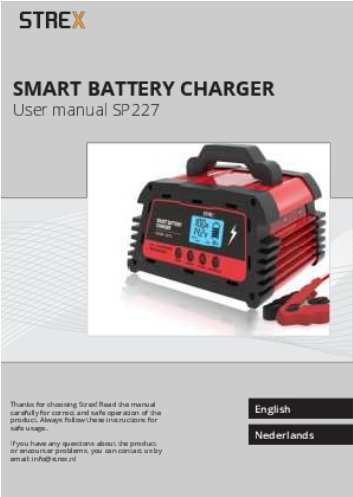
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