

## MIEKLALE S12

# MIEKLALE 12+2 Bays Universal Battery Charger (Model S12) Instruction Manual

## WELCOME

This instruction manual provides essential information for the safe and efficient operation of your MIEKLALE 12+2 Bays Universal Battery Charger (Model S12). This intelligent charger is designed to accommodate a wide range of rechargeable batteries, featuring a smart LCD display for real-time monitoring and multiple safety protections.

Please read this manual thoroughly before using the charger and retain it for future reference.

## KEY FEATURES

- **Widely Compatible:** Supports Li-ion, LiFePO<sub>4</sub>, RCR123, 18650, 26650, 10440, 14500, 9V, NiMH, NiCd, AAA, and AA rechargeable batteries. (*Note: Cannot charge 1.5V Li-ion AA/AAA batteries.*)
- **Fast and Efficient Charging:** Includes a 12V/4A power adapter. Offers multiple current options (300mA/500mA/700mA/1000mA). Slots 1, 3, 5, 7, 9, 11 support 1A fast charging.
- **Intelligent Universal Charger:** Compatible with Li-ion 4.20V / 4.35V / IMR / INR / ICR / LiFePO<sub>4</sub> (3.60V) and NiMH / Cd (1.2V) and 9V batteries. Supports batteries less than 72 mm in length.
- **Comprehensive Safety:** Built-in protections against overcharge, over-discharge, short circuit, reverse connection, overheat, under voltage, over voltage, and over current. Features intelligent bad battery identification.
- **Smart LCD Display:** Provides detailed real-time information including battery symbol, channel (CH), battery type, charging current (A), battery voltage (V), charging time (h), charging capacity (mAh), energy percentage (%), and battery internal resistance (mΩ).
- **Versatile Use:** Designed for convenient use in various environments including home, office, and car.

## PACKAGE CONTENTS

Verify that all items listed below are included in your package:

- 1 \* MIEKLALE 12+2 Slot Smart Battery Charger (Batteries not included)
- 1 \* 12V/3.5A Power Adapter
- 1 \* Car Power Cord
- 1 \* Instruction Manual



Image: The charger, power adapter, and car power cord are shown alongside the product box, illustrating the complete package contents.

## INITIAL SETUP

To begin using your MIEKLALE S12 charger, follow these steps:

1. **Connect the Power Adapter:** Plug the provided 12V/3.5A power adapter into the DC input port on the charger. Then, plug the adapter into a standard wall outlet.
2. **Car Charging (Optional):** For charging in a vehicle, connect the provided car power cord to the DC input port on the charger and then into your vehicle's 12V cigarette lighter socket.



Image: The MIEKLALE S12 charger is displayed with its accompanying power adapter and car charging cable, ready for connection.

# Compatible with Car Charging

Support DC12V Car Charger Input



Image: The MIEKLALE S12 charger is shown connected to a car's 12V power outlet, demonstrating its portable charging capability.

## OPERATING INSTRUCTIONS

### Battery Insertion

Carefully insert your rechargeable batteries into the available charging slots. Ensure correct polarity (+/-) by aligning the battery terminals with the markings in the charger slots. The charger will automatically detect the battery type and initiate the charging process.



### Rechargeable batteries

Type	Voltage Range	Size	Note
Li-ion	3.7V~4.2V	26650,21700,18650,18490, 18350,17670,17500,16340 (RCR123),14500,10440	Max Length72mm
	1.5V	Not suitable	
Ni-MH	1.2V/9V	AA AAA SC/C	
Ni-CD			
IMR	4.35V	Suitable	
LiFeP04	3.65V	Suitable	

Image: Various types of rechargeable batteries, including 18650, AA, and AAA, are shown correctly inserted into the MIEKLALE S12 charger slots.

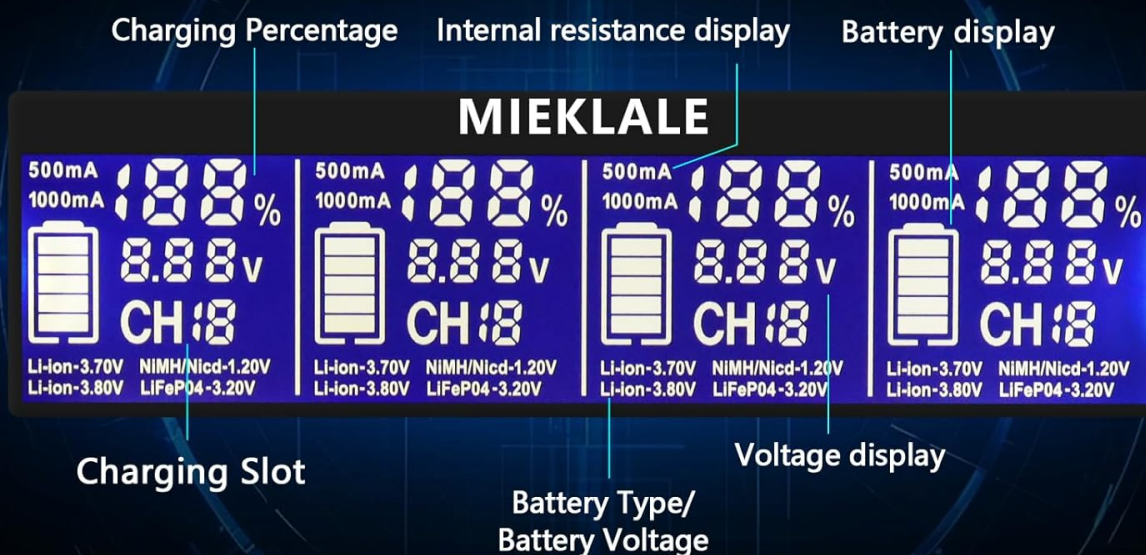
### Understanding the LCD Display

The smart LCD screen provides detailed, real-time information for each individual charging channel. This allows you to monitor the charging status of your batteries at a glance.

- **Battery Symbol / Channel (CH):** Indicates the battery status and the specific charging slot.
- **Battery Type / Battery Voltage (V):** Displays the detected battery chemistry and its current voltage.
- **Charging Current (A):** Shows the current rate at which the battery is being charged.
- **Charging Time (h):** Indicates the elapsed time since charging began for that battery.
- **Charging Capacity (mAh):** Displays the amount of charge delivered to the battery.
- **Energy Percentage (%):** Shows the approximate charge level of the battery.
- **Battery Internal Resistance (mΩ):** Provides an indication of the battery's health.

# HD LCD Display

Test | Fast charge | LCD Display | Power Bank | Independent slot



Uses a high-definition LCD display, the display is very detailed. The display can show the battery type, battery voltage, charging percentage, charging time and charging current.

Image: A close-up of the charger's LCD screen highlights various indicators such as charging percentage, voltage, current, and battery type for each slot.

## Charging Current Selection

The charger intelligently selects the optimal charging current for the inserted battery type. For faster charging, specific slots (1, 3, 5, 7, 9, 11) support 1A current. Refer to the full instruction manual for details on manually adjusting charging current if desired.

## Battery Compatibility

The MIEKLALE S12 charger is designed to be compatible with a broad range of cylindrical rechargeable batteries. Below is a detailed compatibility chart:

Type	Voltage Range	Size	Note
Li-ion	3.7V-4.2V	26650, 21700, 18650, 18490, 18350, 17670, 17500, 16340 (RCR123), 14500, 10440	
Ni-MH / Ni-Cd	1.2V/9V	AA, AAA, SC/C	Max Length 72mm

Type	Voltage Range	Size	Note
IMR	4.35V	Suitable	
LiFePO4	3.65V	Suitable	

*Note: The charger cannot charge 1.5V Li-ion AA/AAA batteries.*



Image: A visual chart detailing the various battery types and sizes compatible with the MIEKLALE S12 charger.

## SAFETY PRECAUTIONS

The MIEKLALE S12 charger is equipped with multiple protection functions to ensure safe and reliable operation. Always adhere to these precautions:

- **Overcharge Protection:** Prevents batteries from being charged beyond their safe voltage limit.
- **Over-discharge Protection:** Protects batteries from being discharged too deeply.
- **Short Circuit Protection:** Automatically cuts off power in case of a short circuit.

- **Reverse Connection Protection:** Prevents damage if batteries are inserted with incorrect polarity.
- **Intelligent Bad Battery Identification:** Detects and alerts users to faulty batteries.
- **Overheat Protection:** Monitors internal temperature and adjusts charging to prevent overheating.
- **0V Activation:** Can activate deeply discharged batteries.
- **Under Voltage Protection:** Safeguards against charging batteries with dangerously low voltage.
- **Over Voltage Protection:** Protects against excessive input voltage.
- **Over Current Protection:** Prevents damage from excessive charging current.

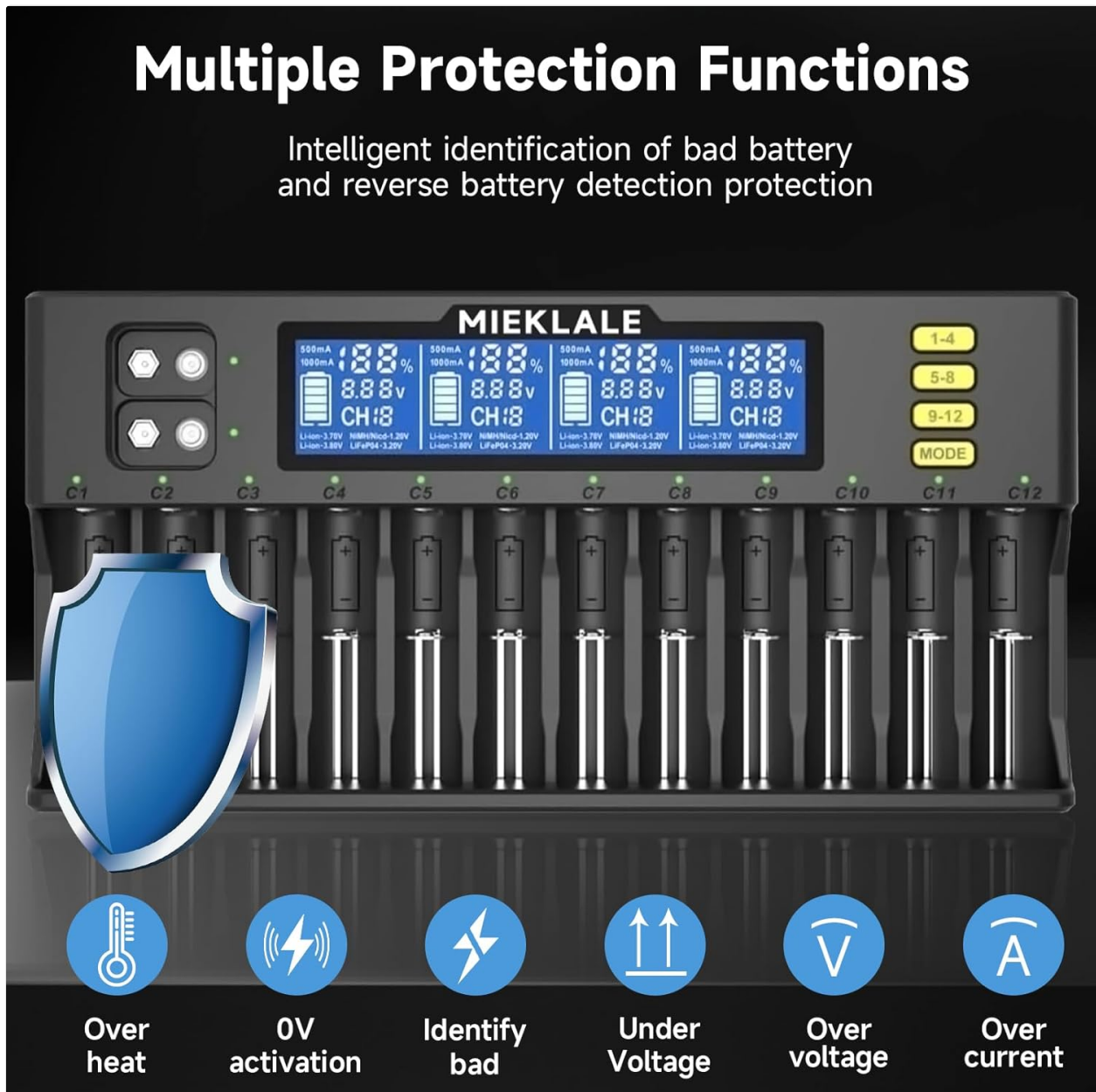


Image: The charger is depicted with various safety icons, including overheat, 0V activation, bad battery identification, under voltage, over voltage, and over current protection.

## TROUBLESHOOTING

If you encounter any issues with your MIEKLALE S12 charger, refer to the following common troubleshooting tips:

- **Battery Not Charging:** Ensure batteries are inserted with correct polarity. Verify that the battery type is compatible with the charger (refer to the compatibility table).

- **"Bad Battery" Indication:** If the charger identifies a battery as faulty, remove and reinsert it. If the indication persists, the battery may be damaged and should be replaced.
- **No Display/Power:** Check that the power adapter or car power cord is securely connected to both the charger and the power source. Ensure the power source is active.

## PRODUCT SPECIFICATIONS

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- **Product Dimensions:** 11.2 x 5.5 x 1.3 inches
- **Item Weight:** 2.01 pounds
- **Output Voltage:** 4.3 Volts
- **Input Voltage:** 12 Volts
- **Manufacturer:** MIEKLALE
- **Model Number:** S12

## OFFICIAL PRODUCT VIDEO

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Your browser does not support the video tag.

Video: A short demonstration of the MIEKLALE Smart Universal Charger, highlighting its features and ease of use with various battery types.

## WARRANTY AND SUPPORT

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For detailed warranty information, technical support, or customer service inquiries, please refer to the contact information provided in your product's original packaging or visit the official MIEKLALE website.