

## APA 16623

# APA 16623 Digital Workshop Battery Charger User Manual

Model: 16623 | Brand: APA

## INTRODUCTION

This user manual provides essential information for the safe and effective operation of your APA 16623 Digital Workshop Battery Charger. This microprocessor-controlled battery charger is designed for various types of lead-acid batteries, including AGM, Gel, Wet, and Maintenance-Free batteries, and aims to extend battery life. It features advanced automatic protection mechanisms against overheating, short circuits, and reverse polarity. The integrated multi-function indicator provides real-time feedback on charging progress and overall battery health. Please read this manual thoroughly before first use and keep it for future reference.

## SAFETY INSTRUCTIONS

Always observe the following safety precautions to prevent injury or damage to the device:

- Read all instructions before using the charger.
- Do not expose the charger to rain or wet conditions.
- Use only in well-ventilated areas.
- Ensure the charger is disconnected from the power supply before making or breaking connections to the battery.
- Avoid sparks or flames near the battery during charging, as batteries can produce explosive gases.
- Wear eye protection and protective clothing when working with batteries.
- Keep out of reach of children.
- Do not charge frozen batteries.
- If the power cord is damaged, it must be replaced by the manufacturer, its service agent, or similarly qualified persons to avoid a hazard.

## PRODUCT OVERVIEW

The APA 16623 charger features a robust design with intuitive controls and a clear digital display.



**Figure 1:** Front view of the APA 16623 Digital Workshop Battery Charger with its red and black housing and attached battery clamps.



**Figure 2:** Close-up view of the charger's control panel, showing the digital display, various indicator lights for charging status, battery type selection, and current settings.



**Figure 3:** Rear view of the charger demonstrating the integrated storage for the power cable and battery clamps, ensuring neat and compact storage.



**Figure 4:** The battery charger shown with its approximate dimensions: 26 cm width, 26 cm depth, and 15 cm height, providing a clear idea of its compact size.

## SETUP

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1. **Unpack:** Carefully remove the charger and all accessories from the packaging.
2. **Inspect:** Check the charger and cables for any signs of damage. Do not use if damaged.
3. **Placement:** Place the charger on a stable, flat surface in a well-ventilated area, away from direct sunlight, heat sources, and moisture.
4. **Battery Preparation:** Ensure the battery terminals are clean and free of corrosion. If necessary, clean them with a wire brush.

## OPERATING INSTRUCTIONS

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### 1. Connecting the Charger to the Battery

1. Ensure the charger is unplugged from the AC power outlet.
2. Connect the RED (+) positive clamp to the positive (+) battery terminal.
3. Connect the BLACK (-) negative clamp to the negative (-) battery terminal. For vehicles, connect the black clamp to the vehicle chassis away from the battery and fuel line if the battery is still in the vehicle.
4. Ensure connections are secure.

### 2. Connecting to Power and Selecting Mode

1. Plug the charger's power cord into a standard 240V AC power outlet.
2. The digital display will illuminate.
3. Use the "Battery Type" button to select the appropriate battery type (AGM, GEL, STD) and voltage (6V or 12V). The charger automatically detects the voltage for 12V batteries.
4. Use the "Charge Current" button to select the desired charging current (2A, 10A, or 20A). For most applications, the "AUTO 0-20A" mode is recommended, which automatically adjusts the current.
5. Press the "Start/Stop" button to begin charging. The display will show charging progress and battery status.

### 3. Charging Process

The charger features a multi-stage charging process:

- **Desulfation:** If a deeply discharged or sulfated battery is detected, the charger may enter a desulfation phase (indicated by "Reparatur" on the display, lasting 30min-2h).
- **Soft Start:** Gradually increases current to protect the battery.
- **Bulk Charge:** Charges the battery at the maximum selected current until it reaches approximately 80% capacity.
- **Absorption Charge:** Charges at a decreasing current until the battery is fully charged.
- **Float/Maintenance Charge:** Once fully charged ("Voll" indicated), the charger switches to a maintenance mode, providing a small current to keep the battery at optimal charge.

### 4. Jump Start Function (100A)

The charger can provide a temporary boost for starting a vehicle with a discharged battery.

1. Ensure the charger is connected to the battery and power as described above.
2. Select the "Starthilfe 100A" (Jump Start 100A) mode.
3. Attempt to start the vehicle. Do not crank for more than 5 seconds. Wait at least 1 minute between attempts.
4. Once the vehicle starts, disconnect the charger from the AC outlet first, then disconnect the clamps from the

battery/chassis.

5. Disconnecting the Charger

- 1. Press the "Start/Stop" button to stop charging.
- 2. Unplug the charger from the AC power outlet.
- 3. Disconnect the BLACK (-) negative clamp from the battery/chassis.
- 4. Disconnect the RED (+) positive clamp from the battery terminal.

MAINTENANCE

- **Cleaning:** Clean the charger's exterior with a soft, dry cloth. Do not use abrasive cleaners or solvents.
- **Cable Inspection:** Regularly inspect the charging cables and clamps for any signs of damage, fraying, or corrosion. Replace if necessary.
- **Storage:** Store the charger in a cool, dry place when not in use. Utilize the integrated cable storage to keep cables tidy.
- **Ventilation:** Ensure the ventilation openings are clear of dust and debris to prevent overheating.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Charger does not turn on.	No power supply; faulty outlet; damaged power cord.	Check power connection; try a different outlet; inspect power cord for damage.
"Fehler" (Error) indicator lights up.	Reverse polarity connection; short circuit; battery fault.	Check clamp connections (red to +ve, black to -ve); inspect cables for shorts; test battery condition.
Battery not charging.	Incorrect mode selected; poor connection; deeply discharged battery.	Verify battery type and voltage selection; ensure clamps are securely connected; allow time for desulfation mode if applicable.
Charger overheats.	Poor ventilation; excessive load.	Ensure adequate ventilation around the charger; reduce charging current if possible.

SPECIFICATIONS

Feature	Specification
Brand	APA
Model	16623
Input Voltage	240V AC
Output Voltage	6V / 12V DC
Charging Current	2A, 10A, 20A (Automatic 0-20A)
Jump Start Current	100A

Feature	Specification
Battery Types	AGM, Gel, Wet, Maintenance-Free Lead-Acid Batteries
Charging Time	Approx. 2 hours (depending on battery size and discharge level)
Material	Plastic housing
Dimensions (L x W x H)	26 cm x 26 cm x 15 cm (approx.)
Weight	5783 Grams (approx. 5.78 kg)
Safety Compliance	UL (as per specification)

## WARRANTY AND SUPPORT







For warranty information and technical support, please refer to the documentation provided with your purchase or contact APA customer service. Keep your proof of purchase for any warranty claims.

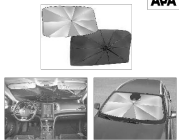
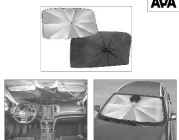

Manufacturer: EAL GmbH

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This manual is for informational purposes only. Specifications are subject to change without notice.

### Related Documents - 16623

 	<p><a href="#">APA Digital Workshop Battery Charger 20A with Jump-Start Assistance - User Manual</a></p> <p>Comprehensive user manual for the APA Digital Workshop Battery Charger 20A (Model 16623), covering its intended use, specifications, safety precautions, operating instructions for charging, jump-starting, generator testing, and constant current supply, along with maintenance and troubleshooting.</p>
 	<p><a href="#">APA Lithium Powerpack 10.000 mAh User Manual and Jump Starter Guide</a></p> <p>Comprehensive user manual for the APA Lithium Powerpack 10.000 mAh (Model 16443), detailing its features, specifications, safety instructions, and how to use it for jump-starting vehicles and charging devices.</p>
 	<p><a href="#">APA Microprocessor Battery Charger 6V/12V 4A User Manual</a></p> <p>Comprehensive user manual for the APA Microprocessor Battery Charger (Model SPC4DVL), detailing its features, specifications, safety instructions, operating procedures, maintenance, and environmental considerations. Suitable for 6V and 12V lead-acid batteries.</p>

 <p>APA 32302 Sonnenschutz für die Frontscheibe</p> <p>Bedienungsanleitung für den APA 32302 Sonnenschutz für die Frontscheibe. Erfahren Sie mehr über die sichere Anwendung, Spezifikationen und Pflege dieses praktischen Autozubehörs.</p>	
 <p>APA 32302 Car Sun Umbrella</p> <p>This document provides operating instructions, safety precautions, and specifications for the APA Car Sun Umbrella 32302. It details how to use, maintain, and store the sunshade to protect vehicle interiors from sun and UV radiation.</p>	
 <p>APA 16626 Automatik-Batterie-Ladegerät 12V 4A</p> <p>Umfassende Bedienungsanleitung für das APA Automatik-Batterie-Ladegerät 12V 4A (Modell 16626). Enthält Sicherheitshinweise, Spezifikationen und Gebrauchsanweisungen für den sicheren und effektiven Betrieb.</p>	