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## KOBB KBS10A

# KOBB KBS10A 6/12V 200A Digital Battery Charger User Manual

Model: KBS10A

## INTRODUCTION

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Thank you for choosing the KOBB KBS10A Digital Battery Charger. This device is designed to charge and maintain 6V and 12V batteries up to 200 Ampere-hours (Ah). It features advanced microprocessor technology for automatic analysis and adjustment of charging parameters based on battery type, capacity, and discharge level. The KBS10A also includes desulfation and battery repair functions, ensuring optimal battery health and extended lifespan. Please read this manual carefully before use to ensure safe and efficient operation.

## SAFETY INFORMATION

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- Always wear eye protection and protective clothing when working with batteries.
- Ensure adequate ventilation in the charging area.
- Never charge a frozen battery. Allow it to thaw before charging.
- Do not smoke or allow sparks or flames near the battery or charger.
- Connect the charger to the battery before plugging it into an AC outlet. Disconnect from AC power before disconnecting from the battery.
- Connect the red (+) clamp to the positive battery terminal and the black (-) clamp to the negative battery terminal.
- Avoid short-circuiting the battery clamps.
- Keep the charger away from water, oil, and dust to maintain its IP65 rating.
- If the battery is deeply discharged (below 3V), the charger may not detect it immediately. Follow specific instructions for deeply discharged batteries.

## PRODUCT FEATURES

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- **Versatile Charging:** Supports 6V and 12V batteries up to 200Ah, including Lead-Acid (Wet), Gel, MF, AGM, EFB, VRLA, and LiFePO4 Lithium batteries.
- **Battery Revitalization:** Cleans sulfate and oxidation from battery plates and performs repair operations to restore battery performance.

- **Advanced Charging Technology:** Features a 10-stage charging program for comprehensive and efficient battery care.
- **Intelligent Operation:** Microprocessor-controlled for automatic battery analysis and optimal charging parameter selection.
- **All-Weather Performance:** Designed for superior charging capacity in both hot (up to 40°C) and cold (down to -20°C) conditions.
- **Comprehensive Safety:** Includes temperature compensation, reverse polarity protection, overheating protection, overload protection, spark-proof connections, short circuit protection, low voltage protection, and high voltage protection.
- **Durable Design:** IP65 rated for water, dust, and oil resistance, ensuring reliability in various environments.
- **Deep Discharge Recovery:** Capable of charging deeply discharged batteries with voltages as low as 3V.

## GÜVENLİ ŞARJ TEKNOLOJİSİ



Sıcaklık  
Telifisi



Ters Kutup  
Bağlantı Koruması



Aşırı Isınma  
Koruması



Aşırı Yük  
Koruması



Kıvılcım  
Koruması



Kısa Devre  
Koruması



Düşük Gerilim  
Koruması



Yüksek Gerilim  
Koruması



Image: The KOBBS10A charger features advanced safety technology, protecting against common electrical issues during charging.



Image: The KOBBS10A charger boasts an IP65 rating, making it resistant to water, dust, and oil for enhanced durability.

## PACKAGE CONTENTS

The KOBBS10A package includes the following items:

- KOBBS10A Digital Battery Charger
- Battery Clamps (Alligator Clips)
- Ring Terminal Connectors with Fuse
- Storage Bag
- User Manual



Image: The KOBB KBS10A charger comes with essential accessories for versatile battery connection and convenient storage.

## SETUP

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- 1. Prepare the Battery:** Ensure the battery terminals are clean and free of corrosion. If necessary, clean them with a wire brush.
- 2. Connect to Battery:**
  - Connect the red (+) charger clamp or ring terminal to the positive (+) battery terminal.
  - Connect the black (-) charger clamp or ring terminal to the negative (-) battery terminal.
  - Ensure connections are secure.
- 3. Connect to AC Power:** Plug the charger's AC power cord into a suitable electrical outlet. The charger will power on and begin its initial analysis.
- 4. Select Charging Mode:** Press the 'MODE' button to select the appropriate charging mode for your battery type (see Operating Instructions for details).



Image: The KOBBS10A charger properly connected to a car battery, ready for operation.

## OPERATING INSTRUCTIONS

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### Mode Selection

After connecting the charger to the battery and AC power, use the 'MODE' button to cycle through the available charging programs. The charger will automatically detect the battery voltage (6V or 12V) and suggest a mode. Confirm or change the mode as needed for your specific battery type.

- **STD:** Standard Lead-Acid batteries.
- **AGM/C:** AGM (Absorbed Glass Mat) batteries and Cold Weather charging.
- **GEL:** Gel Cell batteries.
- **WET:** Wet Cell (Flooded) batteries.
- **EFB:** Enhanced Flooded Batteries.
- **CA:** Calcium batteries.
- **LFP / 12V LiFePO4:** Lithium Iron Phosphate batteries (12V).

- **RECOND MODE:** Recondition mode for deeply discharged or sulfated batteries.
- **SUPPLY MODE:** Provides a constant voltage output for powering 12V devices or maintaining battery voltage during vehicle diagnostics.

## 6V/12V TÜM AKÜLERDE ŞARJ VE BAKIM



Image: The KOBBS10A charger offers multiple modes for charging and maintaining various 6V/12V battery types.

### 10-Stage Charging Program

The KOBBS10A utilizes a sophisticated 10-stage charging process to optimize battery performance and longevity:

1. **Activation:** Initiates charging for batteries with voltage above 3V.
2. **Desulfation:** Applies pulse voltage to break down lead sulfate crystals, improving battery capacity.
3. **Soft Start:** Gradually increases current to prevent damage to deeply discharged batteries.
4. **Bulk Charge (Constant Current):** Charges the battery at maximum current until it reaches approximately 80% capacity.
5. **Absorption Charge (Constant Voltage):** Charges the battery at a constant voltage, gradually reducing current until 100% capacity is reached.
6. **Analysis:** Tests the battery's ability to hold a charge.

7. **Recondition:** A special mode for restoring deeply discharged or sulfated batteries.
8. **Float Charge:** Maintains the battery at full charge by providing a constant, low voltage.
9. **Pulse Maintenance:** Applies small pulses of current to keep the battery optimized during long-term storage.
10. **Equalization:** Balances cell voltages in certain battery types to maximize performance.

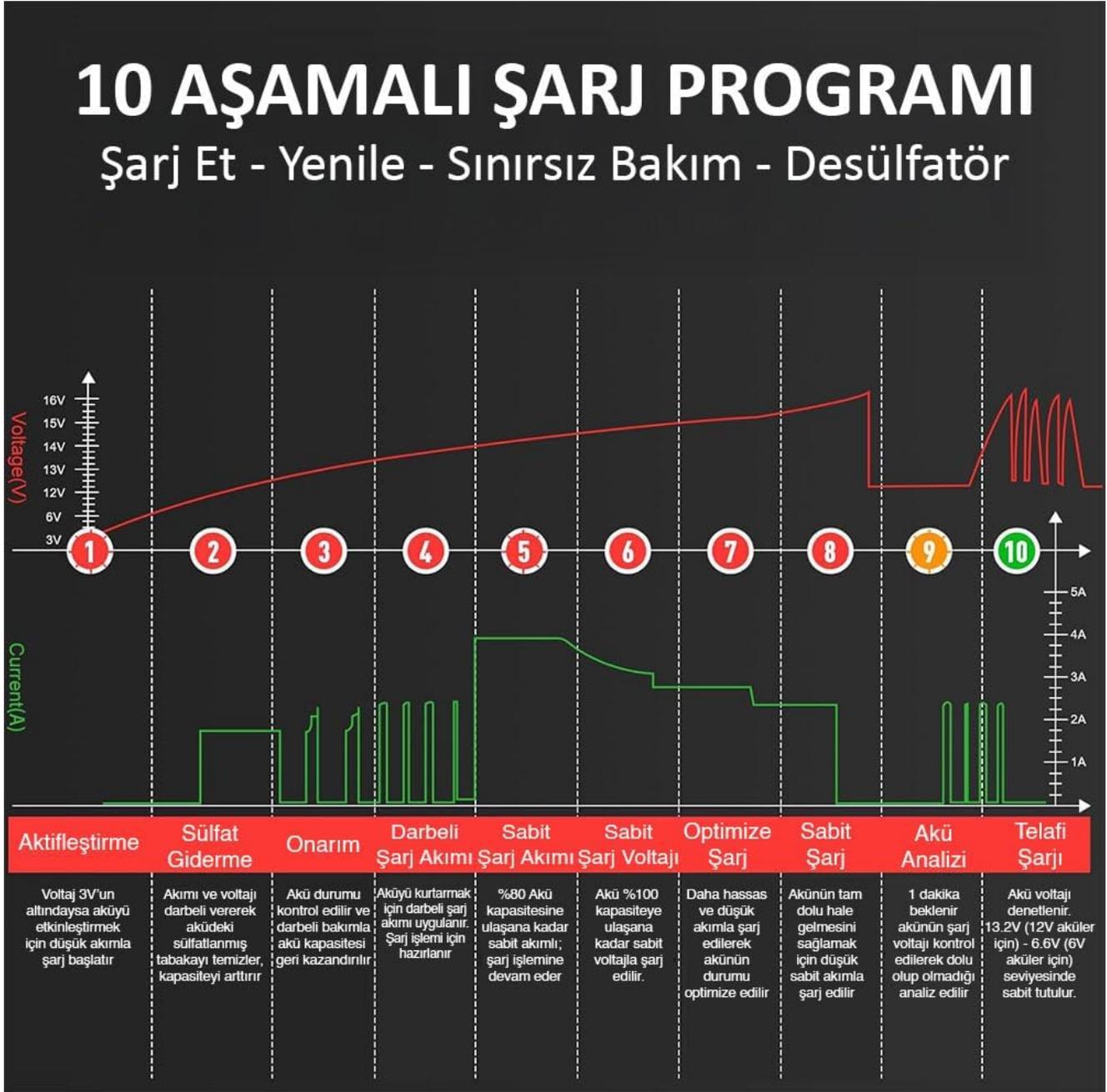


Image: Detailed graph of the 10-stage charging program, demonstrating the intelligent charging cycle for optimal battery health.

## Charging Deeply Discharged Batteries

The KBS10A can charge batteries with voltages as low as 3V. If a battery is severely discharged, the charger may take a moment to recognize it. Ensure proper connection and select the appropriate mode. The charger will automatically initiate a soft start or recondition cycle if needed.

# BOŞ AKÜLERİ ŞARJ EDİN

## 3V'a Kadar Düşmüş Aküleri Şarj Eder



Image: The KOBBS KBS10A is capable of charging deeply discharged batteries, even those with voltages as low as 3V.

## MAINTENANCE

- **Cleaning:** Disconnect the charger from AC power and the battery before cleaning. Wipe the exterior with a soft, damp cloth. Do not use harsh chemicals or abrasives.
- **Storage:** Store the charger in a cool, dry place when not in use. Keep it away from direct sunlight and extreme temperatures.
- **Cable Inspection:** Regularly inspect the charging cables and connectors for any signs of damage, fraying, or corrosion. Replace damaged components immediately.
- **Battery Terminals:** Keep battery terminals clean to ensure good electrical contact.

## TROUBLESHOOTING

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
Charger does not turn on.	No AC power; Faulty outlet.	Check AC power connection; Try a different outlet.
Charger not detecting battery.	Poor connection; Battery voltage too low (below 3V); Incorrect mode selected.	Ensure clamps are securely connected; For very low voltage batteries, ensure connections are solid and allow time for detection; Select correct mode.
Charging process is slow.	Large battery capacity; Deeply discharged battery; Cold ambient temperature.	This is normal for large or deeply discharged batteries. Charging speed is optimized for battery health. Ensure charger is in a suitable temperature environment.
Charger displays an error.	Reverse polarity; Short circuit; Overheating.	Check battery connections for correct polarity; Inspect cables for short circuits; Allow charger to cool down if it's overheating.

## SPECIFICATIONS

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- **Model:** KBS10A
- **Input Voltage:** 220-240V AC, 50/60Hz (Typical for TR market)
- **Output Voltage:** 6V / 12V DC
- **Charging Current:** 10 Ampere
- **Battery Capacity:** Up to 200Ah
- **Supported Battery Types:** Lead-Acid (Wet), Gel, MF, AGM, EFB, VRLA, LiFePO4
- **Minimum Start Voltage:** 3V
- **Dimensions:** 18 x 7 x 34 cm
- **Weight:** 1.07 Kilogram
- **Protection Rating:** IP65 (Waterproof, Dustproof, Oil-proof)
- **Safety Features:** Temperature Compensation, Reverse Polarity Protection, Overheating Protection, Overload Protection, Spark-Proof, Short Circuit Protection, Low Voltage Protection, High Voltage Protection.

## WARRANTY AND SUPPORT

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KOBB products are manufactured to high-quality standards. For warranty information, please refer to the warranty card included with your product or contact your retailer. If you encounter any issues or have questions regarding the KOBB KBS10A charger, please contact KOBB customer support or the seller from whom you purchased the product for assistance.

For further information, you may visit the official KOBB store: [KOBB Store on Amazon.com.tr](#)