

LEOCH EFB-115D23L

LEOCH EFB-115D23L Q-85 Car Battery Instruction Manual

Model: EFB-115D23L/Q-85

1. PRODUCT OVERVIEW

The LEOCH EFB-115D23L Q-85 is a high-performance, maintenance-free EFB (Enhanced Flooded Battery) designed for a wide range of domestic vehicles, including those with idling stop systems, charge control systems, and standard cars. This battery delivers superior starting power, an extended lifespan, and enhanced charge acceptance, ensuring reliable operation under various conditions.

Key Features:

- **High Capacity & Long Life:** Utilizes proprietary power frame plates to achieve high capacity and a prolonged service life.
- **Advanced EFB Technology:** Offers over 2 times the charge/discharge cycles and 130% improved charge acceptance compared to conventional batteries.
- **Reliable Performance:** Engineered to provide stable power even in extreme cold or hot environments.
- **Maintenance-Free:** Designed for convenience, requiring no electrolyte refilling under normal operating conditions.
- **Built-in Indicator:** Features a charge status indicator for easy monitoring of battery health.
- **Foldable Handle:** Equipped with a convenient handle for easier installation and removal.



LEOCH EFB-115D23L Q-85 Car Battery with key specifications.

安心と信頼を、 LEOCH バッテリーとともに！

- バッテリーの適合は年式・型式によって異なります。
必ず実際に装着されているバッテリー品番をご確認いただいたうえでご購入下さい。
- ご購入後の不適合などでの返品・交換は致しかねますのであらかじめご了承ください。
- 当店の商品は日本の倉庫から発送いたします。午前11時までのご注文は当日発送（週末・祝日を除く）いたします。
- ご不明点がございましたら、いつでもご連絡ください。
24時間以内にご返信し、お客様のお困りごとを解決いたします。
- **長期製品保証**（いずれか早期到達時まで）
充電制御車・通常車：36カ月・走行距離無制限
アイドリングストップ車：18カ月または3万KM

**自動車のエンジン始動以外の用途に使用された場合、適合していない車両に使用した場合は保証適用外となります。

**人為的な損傷は保証の対象外となりますので、予めご了承ください。



This chart illustrates the superior performance of LEOCH EFB batteries compared to other products, highlighting increased capacity, CCA, durability, charge acceptance, and cycle life.

2. INSTALLATION AND SETUP

Proper installation is crucial for the safety and performance of your LEOCH EFB battery. If you are unsure about any step, please consult a qualified professional.

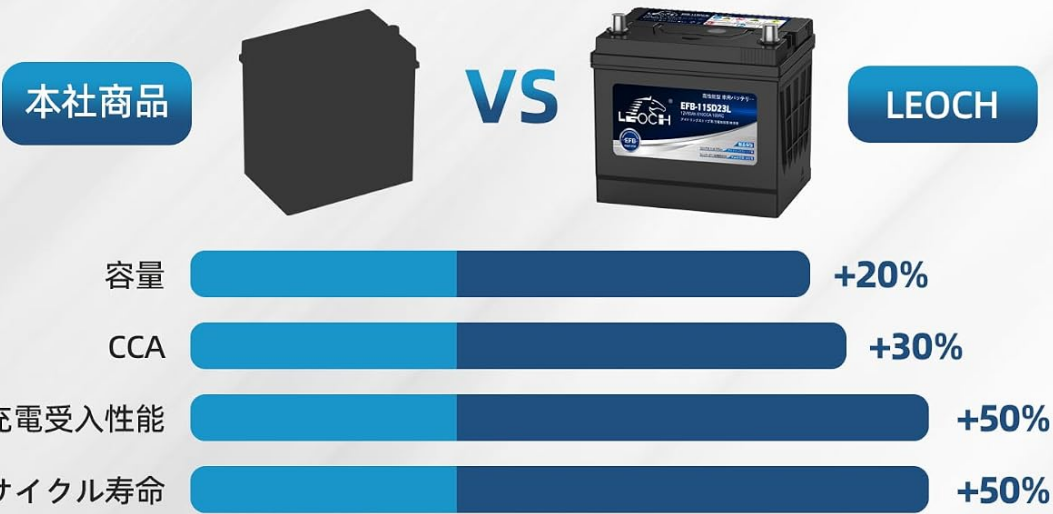
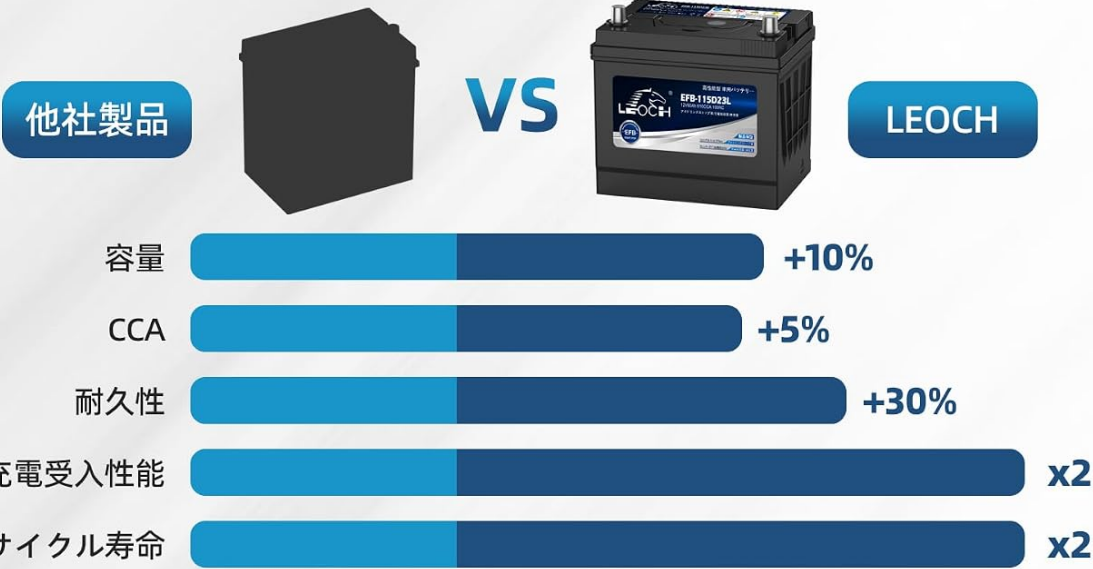
2.1 Pre-Installation Checks

- **Compatibility:** Before purchasing and installing, always confirm the actual battery type (size, rank, and terminal polarity) currently installed in your vehicle. Vehicle models, engine types, and years can vary, leading to different battery specifications.
- **Handling:** Batteries contain electrolyte (dilute sulfuric acid). Always handle the battery in a horizontal position to prevent spills and ensure safety.
- **Safety:** Wear appropriate personal protective equipment, including safety glasses and gloves, during installation.

2.2 Installation Steps

1. **Remove Old Battery:** Disconnect the negative (-) terminal first, then the positive (+) terminal of the old battery. Carefully remove the old battery from the vehicle.
2. **Clean Battery Tray:** Clean the battery tray and terminal clamps to ensure good electrical contact.
3. **Position New Battery:** Place the LEOCH EFB battery securely in the battery tray. The foldable handle can assist with positioning.
4. **Connect Terminals:** Connect the positive (+) terminal first, then the negative (-) terminal. Ensure all connections are tight and secure.
5. **Terminal Adapters:** If your vehicle requires a different terminal type (e.g., T1 to T2), use the provided terminal conversion adapters.

長寿命、優れた性能



The battery features a foldable handle for convenient carrying and installation.

取付取り外しに便利な折りたたみ式ハンドル付き



Terminal conversion adapters are included to ensure compatibility with various vehicle terminal types.

2.3 Vent Plug (If Applicable)

Some vehicles may require a vent plug. If applicable to your car model, install the provided vent plug only where necessary, following your vehicle's specific instructions.



Install the vent plug only if required by your vehicle model.

3. OPERATION

The LEOCH EFB-115D23L Q-85 battery is designed to seamlessly integrate with your vehicle's electrical system, providing reliable power for starting and accessories.

3.1 Idling Stop and Charge Control Systems

This EFB battery is specifically engineered to support the demanding requirements of idling stop and charge control vehicles. Its robust design and enhanced cycle life ensure consistent performance even with frequent engine start-stop cycles.



Idling stop vehicles require batteries with high durability and quick charging capabilities to withstand frequent engine starts and stops.

3.2 Charge Status Indicator

The battery is equipped with a built-in indicator to show its charge status at a glance:

- **Green:** Indicates the battery is sufficiently charged and in good condition.
- **Black:** Indicates the battery is undercharged and requires recharging.
- **White:** Indicates a low electrolyte level, meaning the battery needs to be replaced.



The indicator shows the battery's charge status: Green for good, Black for recharge needed, White for replacement.

4. MAINTENANCE

While the LEOCH EFB-115D23L Q-85 is a maintenance-free battery, following these guidelines will help maximize its lifespan and performance.

- **Regular Checks:** Periodically check the charge status indicator.
- **Recharging:** If the indicator shows black, recharge the battery using a compatible automotive battery charger.
- **Terminal Cleanliness:** Keep battery terminals clean and free from corrosion. Use a wire brush and a mixture of baking soda and water to clean any corrosion, then rinse with clean water and dry thoroughly.
- **Preventing Discharge:** Long periods of inactivity or short, infrequent drives can lead to battery discharge. Regular

driving or periodic charging with a battery charger is recommended to maintain optimal battery health.

- **Storage:** If storing the vehicle for an extended period, disconnect the battery or use a trickle charger to prevent deep discharge.

5. TROUBLESHOOTING

Here are some common issues and their potential solutions:

- **Vehicle Does Not Start / Slow Cranking:**
 - Check the charge indicator. If it's black, the battery is discharged. Recharge it using a suitable battery charger.
 - Ensure battery terminals are clean and securely connected. Loose or corroded terminals can impede current flow.
 - If the issue persists after recharging and checking connections, the battery may be at the end of its service life or there might be an issue with the vehicle's charging system. Consult a professional mechanic.
- **Charge Indicator Shows White:**
 - A white indicator signifies a low electrolyte level. This battery type is sealed and not designed for refilling. The battery needs to be replaced.
- **Battery Drains Quickly:**
 - Ensure there are no parasitic drains on the vehicle's electrical system (e.g., lights left on, faulty accessories).
 - Verify that the vehicle's alternator is charging the battery correctly. A faulty alternator can lead to undercharging.
 - If the battery is frequently discharged despite normal usage and a healthy charging system, it may indicate a declining battery capacity, suggesting replacement.

6. SPECIFICATIONS

Specification	Value
Brand	LEOCH
Model Number	EFB-115D23L/Q-85
Vehicle Type	Passenger Car
Dimensions (L x W x H)	231.5mm x 172mm x 202mm (Total Height: 222mm)
Voltage	12 Volts
Battery Type	Lead-Acid (EFB)
Weight	17.2 kg
Number of Cells	6
Terminal Type	SAE Terminal
20-hour Rate Capacity	60Ah
Cold Cranking Amps (CCA)	610A

Specification	Value
Country of Origin	China
Included Components	Battery unit

7. WARRANTY AND SUPPORT

7.1 Warranty Information

LEOCH provides the following warranty for this product:

- **Charge Control Vehicles & Standard Vehicles:** 36 months, with unlimited mileage.
- **Idling Stop Vehicles:** 18 months or 30,000 km, whichever comes first.

***Please Note:** The warranty may not apply if the battery is used for purposes other than automotive engines or if it is not compatible with the specific vehicle. Damage resulting from human error or improper installation is not covered under warranty. Always refer to the full warranty terms and conditions provided with your purchase.*

7.2 Customer Support

For any questions, concerns, or technical assistance regarding your LEOCH EFB-115D23L Q-85 car battery, please contact LEOCH JP directly. We strive to respond to all inquiries within 24 hours.

Contact Information:

Seller: LEOCH JP

For support, please visit the [LEOCH JP Seller Page](#) on Amazon.co.jp.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question