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**FreedConn BM2-S**

# FreedConn BM2-S Bluetooth Motorcycle Helmet User Manual

Model: BM2-S | Brand: FreedConn

## 1. Introduction

This manual provides comprehensive instructions for the safe and effective use of your FreedConn BM2-S Bluetooth Motorcycle Helmet. Please read this manual thoroughly before using the helmet to ensure proper operation, maintenance, and to maximize your riding experience.

The FreedConn BM2-S is an advanced modular flip-up motorcycle helmet featuring integrated Bluetooth 5.0 technology, dual visors, and a robust ABS shell. It is designed to meet DOT and FMVSS-218 safety standards, offering both protection and connectivity for riders.




Figure 1.1: Front-side view of the FreedConn BM2-S Bluetooth Motorcycle Helmet in matte black. This image highlights the integrated Bluetooth module and the clear outer visor.

## 2. Safety Information

Your safety is paramount. Always adhere to the following safety guidelines:

- **DOT and FMVSS-218 Compliance:** This helmet is certified to DOT and FMVSS-218 safety standards. Ensure the helmet fits correctly before every ride.
- **Proper Fit:** A helmet must fit snugly to provide maximum protection. Refer to the sizing chart in Section 3.1.
- **Visor Use:** Always use the clear outer visor for eye protection. The internal sun visor is for glare reduction and

should not be used as the primary eye protection.

- **Battery Safety:** The integrated Lithium Ion battery requires careful handling. Do not expose to extreme temperatures or puncture. Charge only with a standard 5V 1A charger. Avoid overnight charging.
- **Impact Damage:** If the helmet sustains an impact, even if no visible damage is present, it should be replaced immediately. The protective properties may be compromised.
- **Cleaning:** Use only mild soap and water for cleaning the helmet shell and liners. Avoid harsh chemicals that can degrade materials.

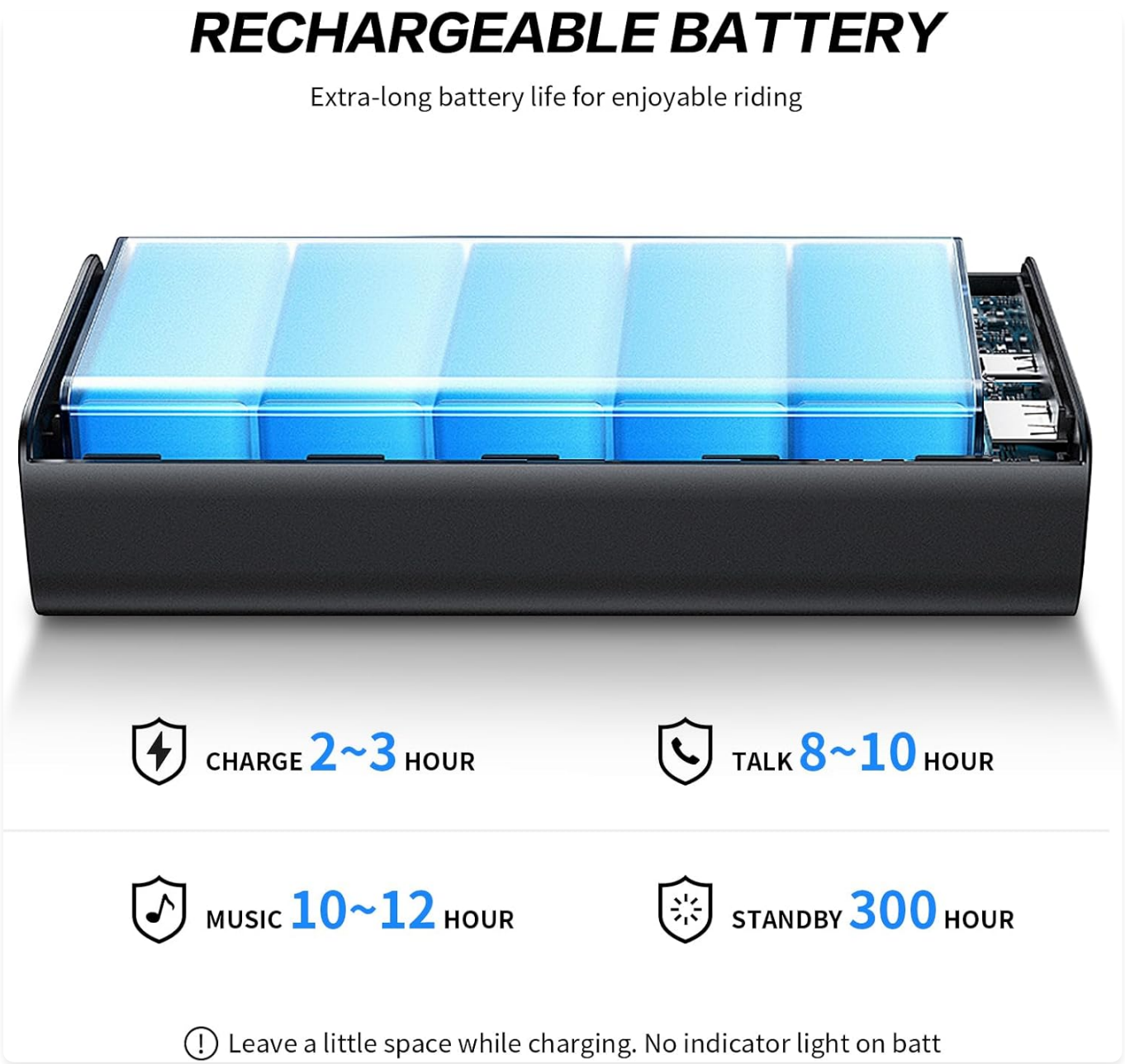



Figure 2.1: Rear view of the helmet showing the DOT FMVSS-218 certification label, indicating compliance with safety standards.

## 3. Product Overview and Components

The FreedConn BM2-S helmet is designed for comfort, safety, and integrated communication. Key components include:

- **ABS Shell:** Strong outer shell for impact protection.

- **Dual Visors:** Clear outer visor and retractable internal sun visor.
- **Ventilation System:** Multiple air inlets and outlets for airflow.
- **Integrated Bluetooth Module:** For communication, music, and GPS.
- **Washable Liners:** Microfiber lining for comfort and hygiene.
- **Quick-Release Chin Strap:** For easy and secure fastening.

## 3.1 Sizing Information

For optimal fit and safety, refer to the following head circumference measurements. If your measurement falls between sizes, it is recommended to select one size larger than your usual wear, as the helmet padding can be adjusted.

**Helmet Sizing Chart (US Motorcycle Helmet)**

| Brand Size | Head Circumference (in) | Hat Size (in) |
|---|---|---|
| S | 22 | 6.9 |
| M | 22.8 | 7.3 |
| L | 23.2 | 7.5 |
| XL | 24 | 7.8 |

If the helmet does not fit well after purchase, contact customer support for assistance with larger/smaller size lining.




Figure 3.1: Riders demonstrating the use of the FreedConn BM2-S helmet, highlighting its design and fit.

## 4. Setup and Initial Use

### 4.1 Charging the Battery

Before first use, fully charge the integrated Lithium Ion battery. The battery provides 8-10 hours of talk/music time and 300 hours of standby time.

1. Connect the charging cable to the helmet's charging port.
2. Use a standard 5V 1A charger (not included) to connect to a power source.
3. Charge for 2-3 hours for a full charge. Do not charge overnight.

**Important Battery Note:**

If the battery enters deep sleep due to long periods of disuse, follow these steps to reactivate:

1. Charge for 0.5 hours using a standard 5V 1A charger.
2. Unplug the charger.
3. Charge again for 2-3 hours.

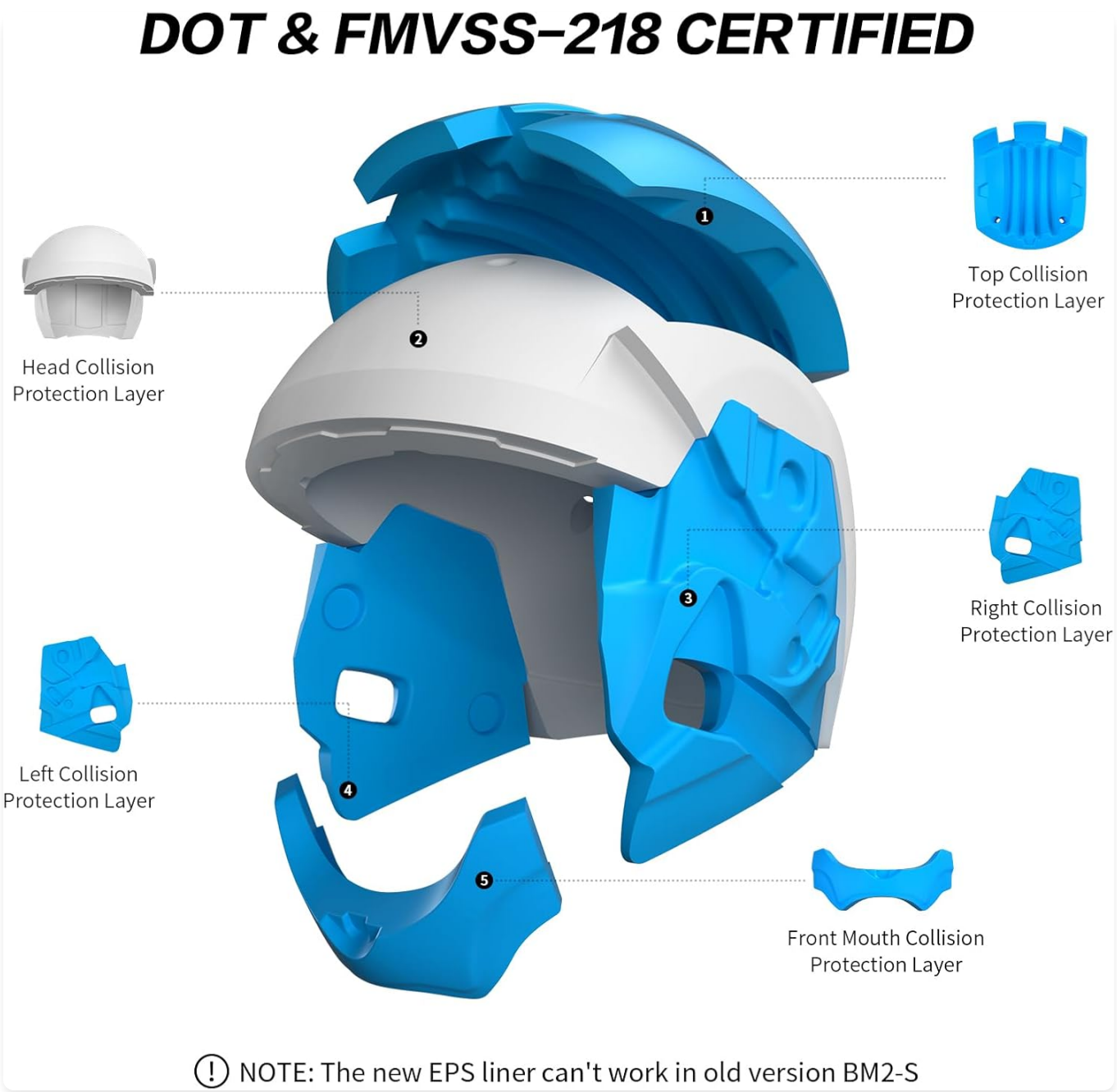



Figure 4.1: Battery performance metrics for the integrated Bluetooth system.

## 4.2 Pairing with Bluetooth Devices

The helmet features Bluetooth 5.0 for seamless connectivity.

1. **Power On:** Press and hold the power button on the Bluetooth module until the indicator light flashes.
2. **Pairing Mode:** Continue holding the power button or follow specific instructions in the full user manual (if provided separately) to enter pairing mode. The indicator light will typically flash rapidly.
3. **Device Search:** On your smartphone or GPS device, search for Bluetooth devices. Select "FreedConn BM2-S" or similar from the list.

4. **Confirmation:** Once paired, the indicator light will change to a steady blue or flash slowly.

The helmet supports hands-free calls (Siri/S Voice compatible), music playback, FM radio, and GPS guidance.

## 5. Operating Instructions

### 5.1 Basic Helmet Operation

- **Flip-Up Mechanism:** To convert from full-face to open-face, locate the release button/lever near the chin bar and lift the front section upwards until it locks into place. To close, press the release and lower the chin bar until it clicks securely.
- **Visor Operation:** The clear outer visor can be raised or lowered manually. The internal sun visor is operated by a slider mechanism, typically on the side of the helmet.
- **Ventilation:** Adjust the sliders on the helmet (e.g., chin vent, top vents) to control airflow.




Figure 5.1: The helmet in its flip-up configuration, demonstrating its versatility.




Figure 5.2: Illustration of the helmet's ventilation system, showing air inlets and outlets for optimal airflow.

## 5.2 Bluetooth Functions

The integrated Bluetooth system allows for various functions via the jog dial and control button:

- **Hands-Free Calls:** Press the control button to answer/end calls. Use voice commands (Siri/S Voice) for dialing.
- **Music Playback:** Use the jog dial to adjust volume. Press the control button for play/pause. Rotate for previous/next track.
- **FM Radio:** Activate FM radio via the control button. Use the jog dial to scan stations.
- **Intercom:** The helmet supports intercom communication between 2-3 riders (up to 1680 feet range) with compatible FreedConn BM2-S/BM12 helmets. Refer to the full Bluetooth manual for detailed intercom pairing instructions.




Figure 5.3: Detail of the Bluetooth control unit, including the jog dial and buttons for various functions.

▶ **Watch video online**

Video 5.1: Demonstration of the helmet's Bluetooth intercom feature, showing how riders can communicate while on the road. This video highlights the connectivity range and clarity of communication.

# 6. Maintenance and Care

## 6.1 Cleaning the Helmet

- **Shell:** Wipe the exterior with a soft, damp cloth and mild soap. Rinse thoroughly and air dry. Do not use abrasive cleaners or solvents.
- **Visors:** Clean visors with a soft cloth and warm water. For stubborn dirt, use a specialized helmet visor cleaner. Avoid scratching the surface.
- **Liners:** The microfiber lining is fully washable. Remove the liners according to the instructions (typically snap or velcro attachments). Hand wash with mild soap and water, or machine wash on a gentle cycle. Air dry completely before reinserting.



Figure 6.1: Components of the helmet's removable and washable interior lining, designed for easy cleaning and hygiene.

## 6.2 Battery Maintenance

To prolong battery life:

- Charge the helmet at least once a month, even if not in use, to prevent deep discharge.
- Always use a 5V 1A charger.
- Avoid charging in extreme temperatures.

## 7. Troubleshooting

**Common Issues and Solutions**

| Problem | Possible Cause | Solution |
|---|---|---|
| Helmet does not power on. | Low battery; deep sleep mode. | Charge the battery. If in deep sleep, follow reactivation steps in Section 4.1. |
| Cannot pair Bluetooth. | Helmet not in pairing mode; device too far; interference. | Ensure helmet is in pairing mode. Move device closer. Restart both devices. |
| Audio quality is poor. | Speakers not positioned correctly; high speed wind noise. | Adjust speaker position inside the helmet. Ensure helmet is properly sealed. |
| Helmet feels too tight/loose. | Incorrect size; padding needs adjustment. | Refer to sizing chart (Section 3.1). Contact customer support for alternative padding sizes. |

## 8. Specifications

- **Model Name:** 953 Motorcycle Helmet Bluetooth (FreedConn BM2-S Bluetooth Helmet New EPS)
- **Certification:** DOT, FMVSS 218, FCC
- **Shell Material:** Acrylonitrile Butadiene Styrene (ABS)
- **Finish Type:** Matte
- **Bluetooth Version:** 5.0
- **Intercom Range:** Up to 1680 feet (between 2-3 riders)
- **Battery:** 1 Lithium Ion (included)
- **Battery Life:** 8-10 hours talk/music, 300 hours standby
- **Charging Time:** 2-3 hours
- **Item Weight:** Approximately 5.99 pounds
- **Ventilation:** 3 air inlets, 4 air outlets
- **Closure Type:** Hook & Loop (Chin Strap)

## 9. Warranty and Support

For warranty information and customer support, please refer to the documentation included with your purchase or visit the official FreedConn website. For issues related to helmet fit, contact customer service as they may provide alternative lining sizes.

**Manufacturer:** LiveConn

**Brand:** FreedConn

**Date First Available:** September 21, 2023

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