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> ISDT C4 AIR Smart Battery Charger Instruction Manual

ISDT C4AIR

ISDT C4 AIR Smart Battery Charger Instruction Manual

Model: C4AIR

1. PRODUCT OVERVIEW

The ISDT C4 AIR is a compact and portable smart battery charger designed for various rechargeable battery types. It features a unique 6-slot design (4 horizontal, 2 vertical) with independent charging channels, supporting rapid charging via USB Type-C input. This charger focuses on charging functionality and portability, offering app control for enhanced user experience and firmware updates.

6連対応充電式電池 急速充電器

「4+2」 スロット 「Type-C」 ポート 「アプリ」 操作



Image 1.1: Overview of the ISDT C4 AIR Smart Battery Charger, highlighting its 6-slot design, Type-C input, and app control capabilities.

Key Features:

- **6 Independent Charging Channels:** Unique 4 horizontal and 2 vertical slot design allows simultaneous charging without current distribution issues.
- **Wide Battery Compatibility:** Supports NiMH, NiZn, Lilon, LiFe, and LiHv battery types across various sizes (AAA, AA, 10440, 10500, 12500, 13500, 14500, 14650, 16650, 17650, 17670, 18650, 18700, 20650, 20700, 21700, 22650, 26650, 26700).
- **USB Type-C Input:** Compatible with QC/PD fast charging protocols, allowing use with common USB-C adapters or power banks (adapter/power source not included). Maximum input power of 40W.
- **Smart App Control:** Wireless connection to a dedicated app provides a larger display and intuitive touch interface for settings and monitoring. Supports OTA firmware upgrades.
- **Multiple Safety Protections:** Includes overcharge, short circuit, reverse polarity, over-temperature, and timeout protection.
- **Compact and Portable:** Designed for portability and practical use, focusing solely on charging functionality.

2. PACKAGE CONTENTS

Verify that all items are present in the package:

- 1x ISDT C4 AIR Charger
- 1x USB Type-C Cable (Power adapter/source not included)

3. SETUP INSTRUCTIONS

3.1 Power Connection

1. Connect the provided USB Type-C cable to the charger's Type-C input port.
2. Connect the other end of the USB Type-C cable to a compatible power adapter (not included) that supports QC/PD fast charging protocols and provides 5-12V input. A power source with a maximum of 40W input is recommended.
3. Ensure the power source is stable and provides sufficient power for optimal charging performance.



Image 3.1: Connecting the ISDT C4 AIR charger to a power source using the USB Type-C cable.

3.2 App Installation (Optional)

For advanced control and monitoring, download the "Polying" app from your device's app store. The app allows for detailed settings and firmware updates.

1. Search for "Polying" in your smartphone's app store.
2. Download and install the app.
3. Follow the in-app instructions to connect your ISDT C4 AIR charger wirelessly.



Image 3.2: The Polying app interface for smart control and monitoring of the charger.

4. OPERATING INSTRUCTIONS

4.1 Inserting Batteries

The C4 AIR features 6 slots: 4 horizontal slots for smaller batteries (e.g., AA, AAA) and 2 vertical slots for larger batteries (e.g., 18650, 26700).

幅広い互換性

対応電池種類

NiMH, NiZn, Lilon, LiFe, LiHv

対応電池サイズ

AAA, AA, 10440, 10500, 12500, 13500, 14500
14650, 16650, 17650, 17670, 18650, 18700
20650, 20700, 21700, 22650, 26650, 26700

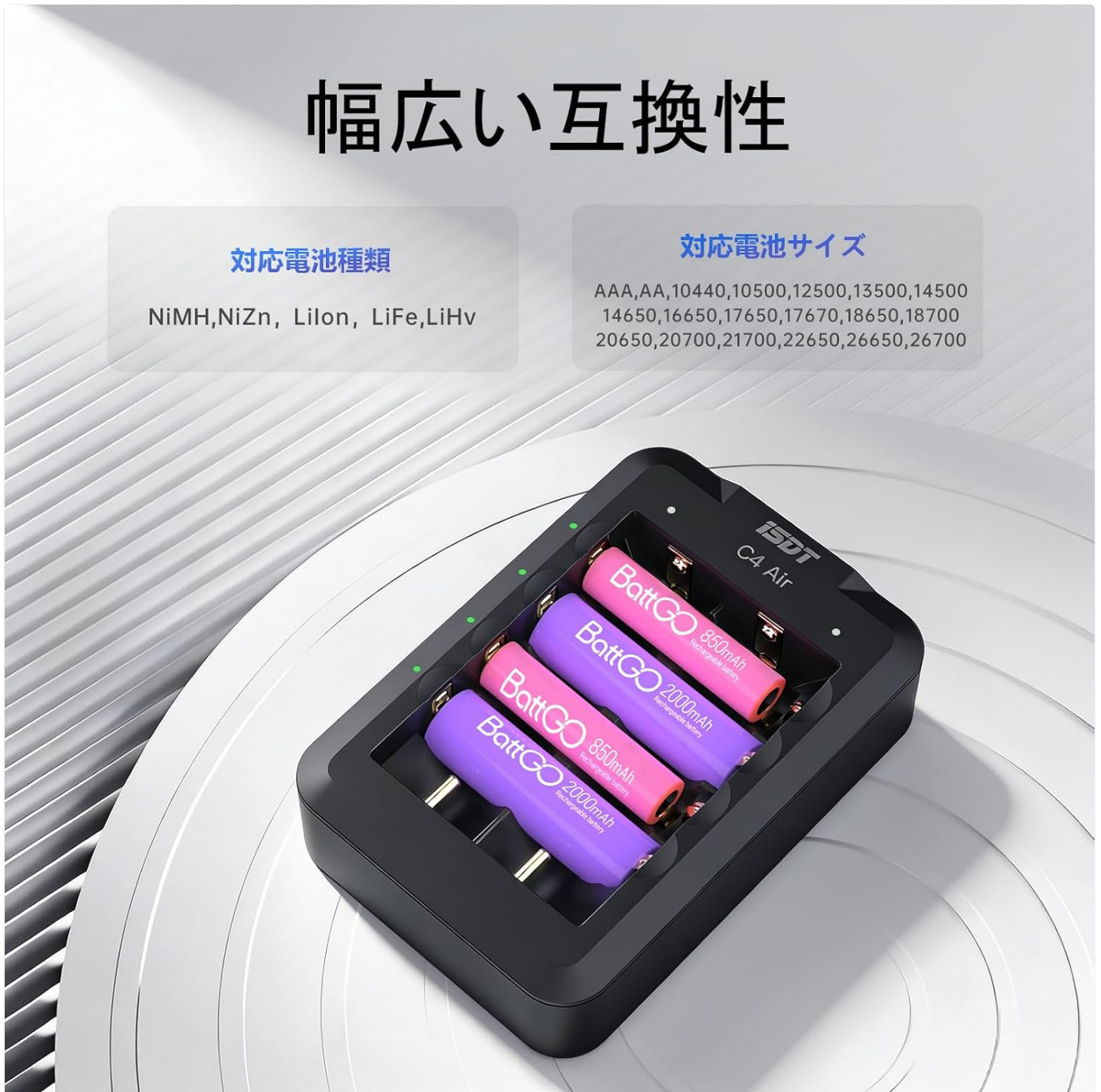


Image 4.1: Illustration of the charger's wide compatibility with different battery types and sizes.

1. Identify the correct slot orientation for your battery size. Horizontal slots accommodate batteries up to 51mm in length, while vertical slots accommodate batteries up to 72mm in length.
2. Insert the battery into the appropriate slot, ensuring correct polarity (+ and - terminals). The charger will automatically detect the battery type and parameters.
3. The charger's independent channels allow for simultaneous charging of different battery types and sizes without interference.

4チャンネル独立動作

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Image 4.2: The charger operating with multiple batteries, showcasing its independent 6-channel design.

4.2 Charging Process

- Once a battery is inserted, the charger will begin the charging process automatically.
- The charging current range is 0.1-2.0A for horizontal slots and 0.1-4A for vertical slots.
- Monitor the charging status via the charger's indicators or through the Polying app.
- The charger will automatically stop charging when the battery is full.

4.3 App Control and Monitoring

Using the Polying app, you can:

- View real-time charging parameters for each slot.
- Adjust charging current settings (if applicable for the battery type).
- Monitor battery health and status.
- Perform firmware updates for the charger.

5. MAINTENANCE AND CARE

Proper maintenance ensures the longevity and optimal performance of your ISDT C4 AIR charger.

- **Cleaning:** Use a soft, dry cloth to clean the charger. Do not use abrasive cleaners or solvents.
- **Storage:** Store the charger in a cool, dry place away from direct sunlight and extreme temperatures.
- **Handling:** Avoid dropping the charger or subjecting it to strong impacts.
- **Firmware Updates:** Regularly check for and apply firmware updates via the Polying app to ensure the charger operates with the latest optimizations and battery compatibility.

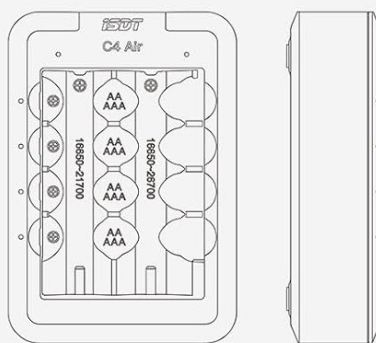
6. TROUBLESHOOTING

Problem	Possible Cause	Solution
Charger not powering on.	No power from USB-C source; faulty cable; incompatible power adapter.	Ensure USB-C power source is active. Try a different USB-C cable and/or power adapter. Verify power adapter supports QC/PD and 5-12V output.
Battery not charging.	Incorrect battery insertion (polarity); battery type not supported; battery is fully charged; faulty battery.	Re-insert battery with correct polarity. Check if battery type is supported (NiMH, NiZn, Lilon, LiFe, LiHv). Verify battery is not already full. Test with a different battery.
App not connecting to charger.	Bluetooth/wireless issue; outdated app/firmware.	Ensure charger is powered on. Restart the app and charger. Check your device's wireless settings. Update the Polying app to the latest version.
Charger stops charging unexpectedly.	Over-temperature protection; timeout protection; unstable power input.	Allow charger to cool down. Ensure proper ventilation. Check power source stability. If issue persists, contact customer support.

If you encounter issues not listed here or if the suggested solutions do not resolve the problem, please contact customer support.

7. SPECIFICATIONS

製品のサイズと重量



モデル:	C4 Air
最大入力電力:	40W
対応電池数:	1~4本の充電電池
対応電池サイズ:	AAA, AA, 10440, 10500, 12500, 13500, 14500, 14650, 16650, 17650, 17670, 18650, 18700, 20650, 20700, 21700, 22650, 26650, 26700 <small>* 電池スロットの最大横置きサイズは51mm、 最大縦置きサイズは72mmとなります。</small>
対応電池種類:	NiMH, NiZn, Lilon, LiFe, LiHv
動作電圧範囲:	5-12V (QC・PD プロトコル対応)
充電電流範囲:	0.1~2.0A (横置き) , 0.1~4.0A (縦置き)
動作温度:	0~40°C
サイズ:	106x73x29mm
重量:	115g

Image 7.1: Detailed specifications and dimensions of the ISDT C4 AIR charger.

Parameter	Value
Model	C4 AIR
Max Input Power	40W
Supported Battery Sizes	AAA, AA, 10440, 10500, 12500, 13500, 14500, 14650, 16650, 17650, 17670, 18650, 18700, 20650, 20700, 21700, 22650, 26650, 26700
Supported Battery Types	NiMH, NiZn, Lilon, LiFe, LiHv
Operating Voltage Range	5-12V (QC, PD compatible)
Charging Current Range	0.1-2.0A (Horizontal slots), 0.1-4A (Vertical slots)
Dimensions (L x W x H)	106 x 73 x 29 mm

Parameter	Value
Weight	0.14 kg (140g)
Voltage Measurement Accuracy	±10mV
Beep Sound	Multi-tone
Firmware Update	Supported (via app)
Protection Features	Overcharge, Short Circuit, Reverse Polarity, Over-temperature, Timeout

8. WARRANTY AND SUPPORT

8.1 Warranty Information

The ISDT C4 AIR charger comes with a **1 Year Warranty Against Manufacturer Defects**. Please retain your proof of purchase for warranty claims.

8.2 Customer Support

For any questions regarding the product, technical assistance, or warranty claims, please contact ISDT customer service. Contact information can typically be found on the official ISDT website or through your retailer.

Note: The Japanese version of the manual is currently being updated. For immediate assistance, please contact customer service.

