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> ISDT K2 AIR Smart Lipo Battery Balance Charger Instruction Manual

ISDT K2 AIR

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Model: K2 AIR

Brand: ISDT

1. INTRODUCTION

The ISDT K2 AIR is a high-performance dual-channel smart balance charger and discharger designed for various battery types, including LiFe, Lilon, LiPo, LiHv, Pb, and NiMH/Cd. It features both AC and DC input capabilities, offering flexibility for different power sources. With its intuitive interface and advanced functions, the K2 AIR provides efficient and safe battery management for hobbyists and professionals.



500W+500W

High Power Synchronous Dual Channel, with Smart Charging.

Smart High Speed Processor delivers parameter interfere to each port.

Hassle Free with Maximum charging power up to 500W for single port.

Choose ISDT, Powered by Innovation.

Image 1.1: The ISDT K2 AIR charger with two Lipo batteries connected, illustrating its dual-channel charging feature.

2. SAFETY INFORMATION

Read all instructions and warnings before use. Failure to do so may result in fire, property damage, or injury.

- Always operate the charger in a well-ventilated area, away from flammable materials.
- Never leave charging batteries unattended.
- Ensure the correct battery type and cell count are selected before initiating any charging or discharging process. Incorrect settings can lead to battery damage or fire.
- The DC input port and the AC input connector are mutually exclusive. Only one input can be selected at a time to ensure safe operation.
- Do not attempt to charge damaged or swollen batteries.
- Keep the charger away from moisture, dust, and direct sunlight.
- Use only genuine ISDT accessories and power cables.

3. PACKAGE CONTENTS

Verify that all items are present in your package:

- 1x ISDT K2 AIR Smart Lipo Battery Balance Charger
- 1x AC Power Cable (region specific)
- 1x User Manual (this document)

4. SETUP

4.1 Power Connection

The K2 AIR supports both AC and DC power inputs. Choose the appropriate power source for your charging environment.

1. **AC Power Input:** Connect the provided AC power cable to the AC input port on the side of the charger and then to a wall outlet (100-240V AC).
2. **DC Power Input:** Connect a DC power supply (10-30V DC) to the DC input port on the side of the charger. Ensure correct polarity.

Important: Do not connect both AC and DC power simultaneously. The charger is designed to prevent this, but always ensure only one power source is connected.



AC/DC Dual mode

AC/DC dual input meet different use requirements.
Output: AC 200W / DC 500W×2.

Safe access

Fool-proof input interface. Smart design
The DC input port and AC input port are mutually exclusive.
Only one input can be selected in one time,
Ensure the safety operation.



Image 4.1: Illustration of the ISDT K2 AIR charger's AC and DC power input options.

4.2 Initial Power On

Once power is connected, the charger will automatically power on and display the main interface on its 2.8-inch IPS LCD screen.

5. OPERATING INSTRUCTIONS

5.1 User Interface and Navigation

The K2 AIR features a 2.8-inch IPS LCD display with a 178° visible angle, providing clear and distinct information even in bright conditions. Navigation is performed using the buttons located on either side of the screen.

Signature original creative interactive systems

Serve 152 countries and regions
Support on line upgrading for more languager, and better interactive system for global market.

简体中文	Español	ประเทศไทย
繁體中文	Italiano	Portugal
English	русский	עברית
Deutsch	한국어	日本語
Français	العربية	...

Image 5.1: The charger's 2.8-inch IPS screen showing real-time charging data.

5.2 Connecting Batteries

The K2 AIR is a dual-channel charger, allowing two batteries to be charged or discharged independently or in parallel (for specific modes).

1. Connect the main power lead of your battery to the XT60 output port on the charger.
2. Connect the balance lead of your battery to the corresponding balance port next to the XT60 port.
3. Repeat for the second channel if charging two batteries.

5.3 Charging Modes

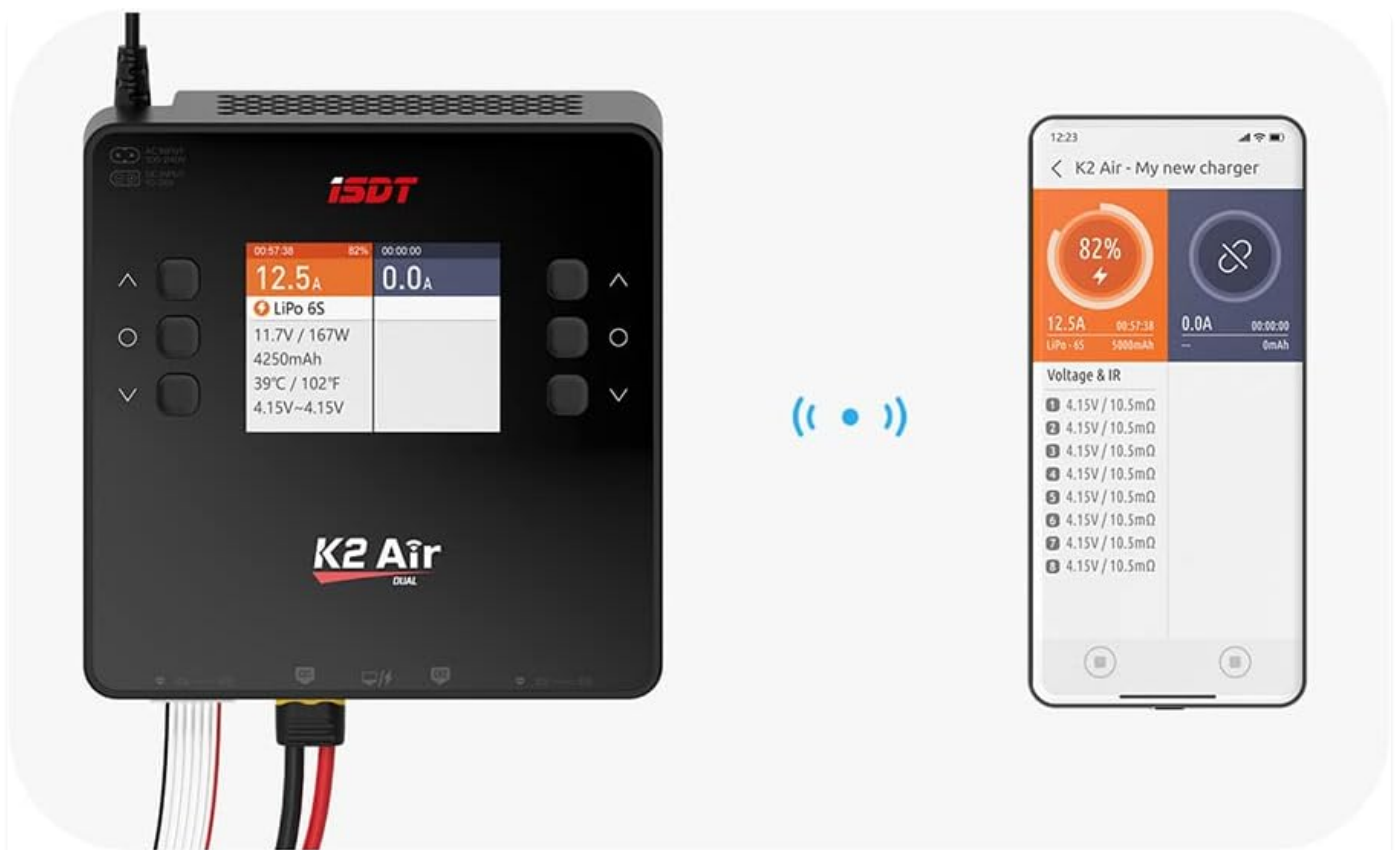
The charger supports various battery types and modes:

- **Supported Battery Types:** LiFe, Lilon, LiPo (1-6S), LiHv (1-6S), Pb (1-12S), NiMH/Cd (1-16S)
- **Charge:** Standard charging mode.
- **Balance Charge:** Charges and balances individual cell voltages for optimal battery health.
- **Discharge:** Discharges the battery to a set voltage.
- **Storage:** Charges or discharges the battery to a safe storage voltage.
- **Parallel Charging:** Allows charging of multiple identical batteries simultaneously (requires parallel charging board, not included). Max parallel charging power: 800W/35A.
- **Parallel Discharge:** Max parallel discharge power: 30W/3A.

5.4 Firmware Upgrade and USB Output

The K2 AIR features a microUSB port for firmware upgrades and a USB Type-C interface for charging mobile devices.

- **Firmware Upgrade:** Connect the charger's microUSB port to a PC to update the firmware. This ensures access to the latest features and performance improvements.
- **USB Type-C Output:** The USB Type-C interface can output 5V/2A power, suitable for charging smartphones or other small electronic devices.



Wireless Operation, start with "ISDLink"

K2 Air adds the wireless connection function.

With 'ISDLink' APP, you can preset charging tasks,
monitor the charging process at any time.

Also, one click to OTA upgrade.

Wirelessly operate, awesomely simple.

Image 5.2: The charger providing power to a mobile device via its USB Type-C port.

5.5 Wireless Operation with ISDLink App

The K2 AIR supports wireless connectivity, allowing you to monitor and control charging tasks via the ISDLink app on your smartphone.

- Download the ISDLink app from your device's app store.
- Pair your K2 AIR charger with the app.
- Monitor charging status, set parameters, and perform OTA (Over-The-Air) firmware upgrades directly from the app.



2.8 inch IPS screen

Low power consumption, 2.8" IPS screen.
Auto-brightness adjustable, 178° visible angle.
Display clear and distinct.
Even in varies hard environment or angles,
As well as in strong sunshine.

Image 5.3: Wireless operation of the K2 AIR charger using the ISDLink mobile application.

Your browser does not support the video tag.

Video 5.1: An official product video demonstrating the features and operation of the ISDT K2 AIR Charger.

6. MAINTENANCE

- **Cleaning:** Use a soft, dry cloth to clean the charger. Do not use solvents or abrasive cleaners.
- **Storage:** Store the charger in a cool, dry place, away from direct sunlight and extreme temperatures (-20°C to 60°C).

- **Ventilation:** Ensure the charger's cooling vents are clear of obstructions to maintain proper airflow. The internal fan helps keep the unit cool during operation.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Charger does not power on.	No power input or incorrect connection.	Check AC or DC power cable connection. Ensure only one power source is connected. Verify power outlet/supply is functional.
"Abnormal Voltage Alarm" displayed.	Input voltage is outside the acceptable range (AC 100-240V / DC 10-30V).	Verify your power source voltage. Disconnect and reconnect the power source.
"Incorrect Cell Count Setting Alarm" displayed.	The detected battery cell count does not match the charger's setting.	Check the battery's actual cell count and adjust the charger settings accordingly before starting the process.
Battery not charging/discharging.	Incorrect battery connection, mode selection, or damaged battery.	Ensure main and balance leads are securely connected. Verify the correct charging/discharging mode and parameters are set. Inspect the battery for damage.

8. SPECIFICATIONS

Feature	Specification
Input Voltage	AC 100~240V / DC 10~30V
Output Voltage	DC 1~30V
Max. Input Current	DC 35A
Charging Current	0.2~20A x2
Discharging Current	0.2~1.5A x2
Balance Current	1.5A/Cell Max
Max. Charging Power	AC 200W / DC 500W x2
Max. Discharging Power	15W x2
Parallel Charging Power/Current	800W/35A
Parallel Discharge Power/Current	30W/3A
Supported Battery Types	LiFe, Lilon, LiPo 1~6S, LiHv 1-6S, Pb 1-12S, NiMH/Cd 1-16S

Feature	Specification
USB Output	5V/2A (Type-C)
Display	2.8" IPS LCD, 178° visible angle
Working Temperature	0~40°C
Storage Temperature	-20°C~60°C
Dimensions	142x135x64mm
Weight	Approx. 700g

9. WARRANTY AND SUPPORT

ISDT products are manufactured to high-quality standards. For warranty information, please refer to the warranty card included with your product or visit the official ISDT website. Keep your purchase receipt as proof of purchase. For technical support, troubleshooting assistance, or service inquiries, please contact ISDT customer service through their official website or the retailer where the product was purchased. Providing your product model (K2 AIR) and serial number (if applicable) will help expedite support.

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Anonymous

Email

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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

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