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› ISDT Q6 Retro Lipo Battery Charger Discharger User Manual

ISDT Q6 Retro

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Model: Q6 Retro

INTRODUCTION

The ISDT Q6 Retro is a compact and powerful DC smart charger and discharger designed for various RC battery types, including LiPo, LiHv, Lilon, LiFe, NiMH, Ni-Cd, and Pb. Featuring a 2.4-inch IPS display, app control, and BattAir technology support, this device offers efficient and intelligent battery management for hobbyists and professionals. This manual provides essential information for the safe and effective operation of your ISDT Q6 Retro charger. Please read it thoroughly before use.

SAFETY INFORMATION

Always prioritize safety when handling batteries and charging equipment. Failure to follow these guidelines can result in property damage, injury, or fire.

- Use only compatible power adapters and cables. The power adapter and cable are not included with this product.
- Never leave the charger unattended during operation.
- Ensure proper ventilation around the charger to prevent overheating.
- Do not charge damaged or swollen batteries.
- Keep the charger away from moisture, heat sources, and flammable materials.
- Always connect the battery to the charger before connecting the power supply. Disconnect the power supply before disconnecting the battery.
- Observe correct polarity when connecting batteries.
- Dispose of old or damaged batteries responsibly, utilizing the battery destruction function where appropriate to reduce environmental impact.

PACKAGE CONTENTS

Verify that all items are present in your package:

- 1 x ISDT Q6 Retro Balance Charger

Note: A power adapter and charging cables are not included and must be purchased separately.

PRODUCT FEATURES

Smarter and Convenient

Built-in App control and multi-connectivity
Efficient mobile phone APP linkage, fully intelligent battery management
Wireless Operation, start with "ISDLink"
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.

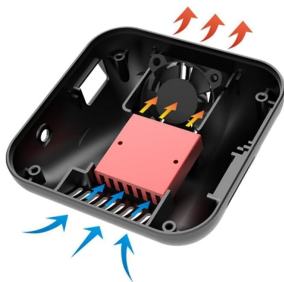


Enhanced Performance

The ISDT Q6 Retro offers significantly optimized smart charging capabilities. It features a maximum output increase of 75%, with charger power up to 350W and discharge power up to 10W. This allows for faster and more efficient charging of various battery types.

Highly optimized internal construction with higher cooling efficiency.

High-speed and high-efficiency
synchronized digital power supply technology,
high-speed bearing fan active cooling, power increase of 300%.



Smart App Control and Connectivity

Experience intelligent battery management with the built-in app control and multi-connectivity features. The "ISDLink" app enables wireless operation, allowing you to preset charging tasks, monitor the charging process remotely, and perform one-click OTA firmware upgrades. Download the ISDLink app from [the official ISDT website](#).

Specifications

Model Name: Q6 Retro
Output Voltage: DC 10-30V
Voltage Current: 5-30V
Charging Current: 0.1-16.0A
Discharging Current: 0.1-1.0A
Max/ Charging Power: 350W
Max/ Discharging Power: 10W
Balance Current: 1.5A/Cell Max
Support Cell Count: 1-6S
Support Battery Types an Cell Count: LiFe, LiPo, LiHV1-6S Pb 1-12S/
NIMH 1-16S
Dimensions: 80*80*33.5 mm
Weight: 119g

BattAir Smart Battery Technology Support

The Q6 Retro supports BattAir smart battery technology. This allows the charger to intelligently exchange information with BattAir batteries, automatically identify the battery type, and match the optimal charging parameters for safe and efficient charging.



Compact Design with Increased Power

Despite its compact size, similar to the Q6 Plus, the new ISDT Q6 Retro doubles the power. Its sleek design and portability make it easy to carry in bags and pockets, ideal for use on the go.



Optimized Cooling Efficiency

The internal construction is highly optimized for superior cooling. It incorporates high-speed and high-efficiency synchronized digital power supply technology, combined with an active high-speed bearing fan, resulting in a 300% increase in cooling efficiency.

Same Size, but Double the Power

The new ISDT Q6 Retro, with its sleek design and the same size as the Q6 Plus, doubles the power and fits easily into bags and pockets for more portability when out and about.



Adjustable Digital Power Supply and Battery Destruction

A new feature includes an adjustable digital power supply mode, offering increased flexibility for various user needs.

Additionally, a dedicated battery destruction function is available to safely render old batteries unusable, reducing environmental pollution.

Stronger and Smarter

The New Generation of Q6 is greatly optimized for smart charging.
Maximum output increased to 75%
Charger Power increased up to 350W
Discharge Power increased up to 10W



Upgradeable Firmware

The charger's firmware can be updated via a USB-C port connected to a PC or Mac. This ensures the charger maintains optimized performance and has access to the latest features without hassle.

2.4-inch IPS Display

The Q6 Retro features a 2.4-inch IPS display with up to a 178° visible angle. The auto-brightness screen ensures visibility even under strong sunlight, providing clear information at a glance.

SETUP

1. **Connect Power Supply:** Connect a DC power supply (10-30V) to the charger's input port (XT60). Ensure the power supply is capable of providing sufficient wattage for your charging needs (up to 350W). *Note: Power adapter and cable are not included.*
2. **Connect Battery:** Connect your battery to the appropriate charging port (XT60) and the balance port (if applicable) on the ISDT Q6 Retro. Ensure correct polarity.
3. **Power On:** The charger will power on automatically once a valid DC input is detected.
4. **Initial Settings:** Upon first use or after a reset, you may need to configure basic settings such as language and system preferences.

OPERATING INSTRUCTIONS

Basic Charging

1. **Select Battery Type:** Navigate through the menu using the scroll wheel/button to select the correct battery type (e.g., LiPo, LiHv, NiMH).
2. **Set Charging Mode:** Choose your desired charging mode (e.g., Balance Charge, Fast Charge, Storage Charge).
3. **Adjust Current:** Set the charging current (0.1A-16.0A) according to your battery's specifications. Refer to your battery's manual for recommended charging rates.
4. **Start Charging:** Confirm the settings and start the charging process. The display will show real-time charging status, including cell voltage, total voltage, and current.

Discharging

The Q6 Retro supports discharging with a power of up to 10W and current from 0.1A-1.0A.

1. **Select Battery Type:** Choose the correct battery type.
2. **Select Discharge Mode:** Select the discharge function from the menu.
3. **Set Discharge Parameters:** Adjust the discharge current and target voltage as needed.
4. **Start Discharging:** Confirm and begin the discharge process.

Using the ISDLink App

The ISDLink app provides enhanced control and monitoring capabilities:

- Download the "ISDLink" app from the official ISDT website or your device's app store.
- Enable Bluetooth on your mobile device and open the app.
- Pair your ISDT Q6 Retro charger with the app.
- From the app, you can preset charging tasks, monitor charging progress, view battery information, and initiate OTA firmware updates.

Battery Destruction Function

This feature allows for the safe discharge of old or damaged batteries to a very low voltage, making them safer for disposal. Consult local regulations for proper battery disposal.

1. **Connect Battery:** Connect the battery to be destroyed to the charger.
2. **Select Destruction Mode:** Navigate to the "Battery Destruction" or similar mode in the charger's menu.
3. **Confirm and Start:** Follow the on-screen prompts to confirm and initiate the destruction process. Monitor the process until completion.

MAINTENANCE

- Keep the charger clean and free from dust and debris. Use a soft, dry cloth for cleaning.
- Store the charger in a cool, dry place when not in use.
- Regularly check cables and connectors for signs of wear or damage. Replace any damaged components immediately.
- Ensure the cooling fan is not obstructed to maintain optimal performance.

TROUBLESHOOTING

Issue: Charger button is unresponsive or device is not functioning correctly.

Solution: Go to the official ISDT website (www.isdt.co) and update the charger to the latest firmware. This often resolves software-related issues.

Issue: Charger does not power on.

Solution: Ensure the DC input voltage is within the 10-30V range and the power supply is correctly connected and functional. Verify that the power supply can deliver sufficient current.

Issue: Charging process does not start or stops prematurely.

Solution:

- Check battery connections and balance lead (if used) for proper contact and polarity.
- Verify that the correct battery type and cell count are selected in the charger settings.
- Ensure the charging current is set appropriately for the battery.

- Inspect the battery for any signs of damage or swelling. Do not charge damaged batteries.

Issue: Charger or battery becomes excessively hot during operation.

Solution: Immediately stop the charging/discharging process. Check for proper ventilation around the charger. Ensure the charging current is not set too high for the battery. If the battery is hot, allow it to cool down before attempting further operations. Discontinue use of any battery that consistently overheats.

SPECIFICATIONS



Model Name:	Q6 Retro
Input Voltage:	DC 10-30V
Output Voltage:	DC 1-30V
Max Charging Power:	350W
Charging Current:	0.1A-16.0A
Max Discharging Power:	10W
Discharging Current:	0.1A-1.0A
Balance Current:	1.5A/Cell Max
Supported Cell Count:	1-6S
Supported Battery Types:	LiFe, LiPo, LiHV (1-6S), Pb (1-12S), NiMH (1-16S)
Dimensions:	80 x 80 x 33.5 mm (3.15 x 3.15 x 1.32 inches)
Weight:	119 g (4.2 oz)
Display:	2.4" 320x240 IPS LCD

WARRANTY AND SUPPORT

ISDT products are manufactured to high-quality standards. For warranty information and technical support, please visit the official ISDT website or contact their customer service directly. Keep your purchase receipt as proof of purchase for warranty claims.

Official Website: www.isdt.co

