

ISDT Q6 Nano

ISDT Q6 Nano Smart RC Battery Charger

INSTRUCTION MANUAL

1. Introduction

Thank you for choosing the ISDT Q6 Nano Smart RC Battery Charger. This compact and powerful charger is designed for efficient and safe charging and discharging of various RC battery types, including LiPo, LiFe, Lilon, LiHv, NiMH, Ni-Cd, and Pb batteries. With its intuitive interface and advanced features, the Q6 Nano provides a reliable solution for your battery management needs. Please read this manual thoroughly before operation to ensure proper use and maximize the lifespan of your batteries and charger.

2. Key Features

- **High Power Output:** 200W maximum charge capacity and 8A maximum charge current for fast and efficient charging.
- **Wide Battery Compatibility:** Supports 2-6S Lithium (LiFe, Lilon, LiPo, LiHv) and 1-16S NiMh/Ni-Cd/Pb batteries.
- **Vivid IPS Display:** Equipped with a 1.5-inch 240x240 IPS LCD screen with auto-brightness adjustment and 178° visible angle for clear viewing in various conditions.
- **Efficient Cooling System:** Features an advanced active cross-flow cooling air duct design with a ball bearing fan and aluminum alloy fins for high-efficiency heat dissipation.
- **Upgradeable Firmware:** MicroUSB port allows for easy firmware upgrades, ensuring optimal performance and access to the latest features.
- **Compact and Ergonomic Design:** Rounded, pebble-like shape provides a comfortable grip and pleasant aesthetic.

IPS Screen

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



The ISDT Q6 Nano features a 1.5-inch IPS screen for clear and distinct display, even in strong sunlight or at various angles.

Rounded like a pebble

Rounded form family design language,
give a pleasure appearance and superb touch,
Like holding a piece of pebble in your palm.



The ISDT Q6 Nano's rounded, pebble-like design offers a comfortable feel and compact form factor.

3. Package Contents

Upon opening the package, please verify that all items are present and in good condition:

- 1x ISDT Q6 Nano Lipo Charger
- 1x Screen Protector

Note: The power adapter and charging cables are NOT included and must be purchased separately.

4. Setup Guide

4.1. Power Connection

The ISDT Q6 Nano requires a DC input voltage of 10-30V. Connect a suitable power supply (not included) to the DC IN port on the charger. Ensure the power supply can provide sufficient current (maximum input current 9A) for your charging needs.

4.2. Battery Connection

Connect your battery to the appropriate output port on the Q6 Nano. For LiPo/LiFe/LiIon/LiHv batteries, connect the main discharge lead to the XT60 port and the balance lead to the balance port. For NiMH/Ni-Cd/Pb batteries, connect only the main discharge lead.

5. Operating Instructions

5.1. Basic Charging

1. Connect the charger to a power source.
2. Connect the battery to the charger as described in Section 4.2.
3. The charger will automatically detect the battery type and cell count (for lithium batteries).
4. Use the navigation button to select the desired charging mode (e.g., Charge, Balance, Storage, Discharge).
5. Adjust the charging current as needed.
6. Confirm your settings to begin the charging process. The display will show real-time charging status.

5.2. Firmware Update

The ISDT Q6 Nano's firmware can be updated via its microUSB port. This ensures you always have the latest features and performance optimizations.

1. Download the latest firmware from the official ISDT website.
2. Connect the Q6 Nano to your PC using a microUSB cable.
3. Follow the instructions provided with the firmware update tool to complete the process.

Support USB port to upgrade firmware

By connecting the charger microUSB port to the PC,
Q6–Nano can acquire latest firmware upgrading,
ensure the charger have optimized performance and latest firmware all the time.



Connect the ISDT Q6 Nano to a PC via its microUSB port to update the firmware and ensure optimal performance.

6. Maintenance


- **Cleaning:** Regularly wipe the charger with a soft, dry cloth. Do not use liquid cleaners or solvents.
- **Ventilation:** Ensure the cooling vents are clear of dust and debris to maintain efficient heat dissipation. The active cooling fan helps manage internal temperatures during operation.
- **Storage:** Store the charger in a cool, dry place away from direct sunlight and extreme temperatures.
- **Cable Inspection:** Periodically inspect all cables and connectors for signs of wear or damage. Replace any damaged components immediately.

7. Troubleshooting

- **Button Not Responding/Wobbly:** If the navigation button is unresponsive or feels wobbly, try updating the firmware to the latest version from the ISDT official website. Ensure you are pressing the button firmly and directly.
- **Charger Not Powering On:** Verify that the DC input voltage is within the 10-30V range and that the power supply is providing sufficient current. Check all power connections.
- **Charging Error/Battery Not Detected:** Ensure the battery is correctly connected to both the main discharge port and the balance port (for lithium batteries). Check for any damage to the battery or charger ports.
- **Inaccurate Cell Voltage Readings/Balancing Issues:** If cell voltages appear inconsistent or balancing is ineffective, ensure the balance lead is securely connected. Consider performing a calibration if the option is available in the charger's menu, or update the firmware.
- **Overheating:** Ensure the charger's cooling vents are not obstructed and that it is operating in a well-ventilated area. Reduce the charging current if overheating persists.

8. Technical Specifications

Specifications

Input Voltage	DC 10~30V
Maximum Input Current	9A
Output Voltage	DC 1~30V
BattGO™ Support Smart Battery	Support
Charge Current	0.1~8.0A
Discharge Current	0.1~1.0A
Max Charge Capacity	200W
Max Discharge Capacity	10W
Balancing Current	0.5A/Cell Max
Balance Cells	2~6S
Color	
Supported Battery Type	LiFe, Lilon, LiPo, LiHv 1~6S; Pb 1~12S; NiMh/Cd 1~16S
Display	1.5 " 240x240 IPS LCD
Operating Temperature	0~40°C
Storage Temperature	-20~60°C
Dimensions	72x72x32mm
Weight	120g

Detailed technical specifications for the ISDT Q6 Nano charger.

Specification	Value
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Balancing Current	0.5A/Cell Max
Balance Cells	Max 2-6S
Supported Battery Type	LiFe, Lilon, LiPo, LiHv 1-6S; NiMh/Cd 1-16S; Pb 1-12S
Display Screen	1.5" 240x240 IPS LCD
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Dimensions	72x72x32mm
Weight	120g