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› [ISDT](#) /

› ISDT PD60 60W 6A Lipo Battery Charger Instruction Manual

ISDT PD60

ISDT PD60 60W 6A Lipo Battery Charger Instruction Manual

Model: PD60

1. INTRODUCTION

This manual provides essential information for the safe and efficient operation of your ISDT PD60 60W 6A Lipo Battery Charger. Please read it thoroughly before use to ensure proper functionality and to prevent damage to the device or batteries.

PD60

KLEIN ABER MÄCHTIG

PD 60W
INTELLIGENTES
LADEGERÄT



Figure 1: Front view of the ISDT PD60 60W 6A Lipo Battery Charger, showing the display and control buttons.

2. PRODUCT FEATURES

- **USB-C Power Input:** Compatible with QC 2.0/3.0 and USB PD 2.0/3.0, supporting 5-20V voltage input.
- **Firmware Update Support:** Connect to a computer via the USB-C interface to update to the latest firmware, ensuring advanced performance and features.
- **User-Friendly Interface:** Features two optimized control buttons and clear status indicators for simple and efficient operation.
- **Silent Heat Dissipation:** Utilizes natural convection with a full aluminum cooler, honeycomb design, and hidden air inlet for quiet heat management.
- **Compact and Portable:** Small design, combined with PD and QC fast charging protocols, makes it easy to carry for daily use or travel.



Figure 2: Top-down view of the ISDT PD60 charger, highlighting the USB-C input port and product details.

3. SPECIFICATIONS

Specifications

Model No.	PD60
Input voltage	DC 5~20V
Output voltage	DC 1~20V
Max. input current	3A
Charging current	1A/2A/3A/6A
Max. charging power	60W
Balance current	0.5A/Cell Max
Supported Quick-charge	PD2.0/3.0, QC2.0/3.0 (Not supported 5V/1A power supply input)
Supported battery types and cell count.	LiFe,LiHv ,LiPo 1-4S NiMH/Cd 1-12S
Abnormal voltage alarm	Support
Incorrect cell count setting alarm	Support
Working temperature	0~40°C
Storage temperature	-20~60°C
Dimension	56×85×21mm
Weight	About 87g

Figure 3: Detailed specifications of the ISDT PD60 charger.

Specification	Value
Model Number	PD60
Input Voltage	DC 5V-20V
Output Voltage	DC 1.0V-20V
Maximum Input Current	3A
Charge Current	1A / 2A / 3A / 6A

Maximum Charge Power	60W
Balance Current	0.5A / cell max
Supported Quick-Charge	PD2.0/3.0, QC 2.0/3.0 (5V/1A power supply input not supported)
Supported Battery Types & Cells	LiFe/LiHV, LiPo 1-4S; NiMH/Cd 1-12S
Abnormal Voltage Alarm	Support
Incorrect Cell Count Setting Alarm	Support
Operating Temperature	0-40 °C
Storage Temperature	-20 to 60 °C
Dimensions	56 x 85 x 21 mm
Weight	87 g

4. SETUP

4.1 Power Input

Connect a compatible USB-C power adapter to the charger's input port. Ensure the power source provides DC 5V-20V and supports QC 2.0/3.0 or USB PD 2.0/3.0 protocols. For optimal performance and to achieve the maximum 60W charging power, a 60W USB PD power adapter is recommended. **Note:** A 5V/1A power supply input is not supported and will not power the charger.

4.2 Connecting the Battery

Connect your battery to the charger's output port. For balanced charging of LiPo, LiHv, or LiFe batteries (1-4S), ensure both the main power lead (e.g., XT60) and the balance lead are correctly connected to their respective ports on the charger. For NiMH/Cd batteries, only the main power lead is required.



Figure 4: Output side of the ISDT PD60 charger, showing the XT60 and balance ports for battery connection.

5. OPERATING INSTRUCTIONS

5.1 Selecting Battery Type

Upon powering on, use the control buttons to navigate and select the appropriate battery chemistry (LiPo, LiHv, LiFe, NiMH/Cd) that matches your connected battery. Incorrect selection can damage the battery.

5.2 Setting Charge Current

After selecting the battery type, use the control buttons to adjust the charge current. Available options are 1A, 2A, 3A, and 6A. Always refer to your battery's manufacturer specifications for the recommended safe charging rate. Overcharging or charging at an excessive current can lead to battery damage or safety hazards.

5.3 Starting and Monitoring Charge

Once the battery type and charge current are correctly set, initiate the charging process. The charger's display will show the charging status, including current battery level, voltage, and charging progress. Monitor the charging process and ensure the battery remains within safe operating temperatures.



Figure 5: Top view of the ISDT PD60 charger, illustrating the display and control buttons for operation.

6. MAINTENANCE

6.1 Firmware Updates

The ISDT PD60 charger supports firmware updates to enhance performance and add new features. To update the firmware, connect the charger to a computer via its USB-C interface. Visit the official ISDT website for the latest firmware files and detailed update instructions.

6.2 Cleaning and Storage

Keep the charger clean by wiping it with a soft, dry cloth. Avoid using harsh chemicals or abrasive materials. Store the charger in a dry, cool environment, away from direct sunlight, moisture, and extreme temperatures. Disconnect all batteries and power sources before storing.

7. TROUBLESHOOTING

7.1 Abnormal Voltage Alarm

If the charger displays an "Abnormal Voltage Alarm," check the voltage of the connected battery. Ensure it is within the supported voltage range for the selected battery type and cell count. Disconnect the battery, verify its condition, and then reconnect it securely.

7.2 Incorrect Cell Count Setting Alarm

An "Incorrect Cell Count Setting Alarm" indicates a discrepancy between the charger's detected battery cell count and the manual setting. Verify the actual cell count of your battery and adjust the charger's settings accordingly. For example, a 3S LiPo battery should be set to 3S on the charger.

7.3 Charger Not Powering On

If the charger does not power on, ensure the USB-C power input is providing sufficient voltage (5V-20V) and current. Confirm that your power adapter supports QC 2.0/3.0 or USB PD 2.0/3.0 protocols. A 5V/1A power input is not sufficient to operate the charger.

8. WARRANTY AND SUPPORT

The ISDT PD60 charger is covered by a manufacturer's warranty. For specific warranty terms, conditions, and duration, please refer to the warranty card or documentation included with your purchase. For technical support, troubleshooting assistance beyond this manual, or service inquiries, please contact ISDT customer support directly through their official website or the retailer from whom you purchased the product. A 30-day refund or replacement policy may be available through your retailer, subject to their terms and conditions.

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