ROTORAMA

iSDT 608PD

Smart Charger 240 W
Instruction Manual



Never leave the charger unsupervised during operation. Read the entire manual carefully before first use and keep it for future reference.

Manufacturer: Shenzhen ISD Technology Co., Ltd. · EU importer: Rotorama, s.r.o.

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1. Warnings and Safety Tips

Thanks for purchasing the ISDT 608PD Smart Charger. Please visit www.isdt.co for more details on the functions of this smart charger, as well as to purchase various accessories. Functions of the product are continuously upgraded, so the manual in your hand may differ from the actual operation; please refer to the actual functions.

1.1 General instructions

For your safety, read this manual and follow the instructions before using the charger. The product is intended for persons aged 14 and over.

- Never use the charger without supervision. Stop using the charger and refer to the manual for reasons if any functional abnormality occurs.
- Keep the charger away from dust, humidity, rain and high temperature, and avoid direct exposure to sunlight and intense vibration.
- Place the charger on a heat-resistant, non-flammable and insulating surface. Do not use it on car seats, carpet or other similar places. Keep inflammable and explosive objects away from the operating area of the charger.
- Read the instruction manual carefully to become familiar with the features of the charger, and set proper charging parameters before operating. Incorrectly set parameters will result in damage to the product and personal property and may cause serious injury as well.
- To ensure normal use of the equipment and the personal safety of the user, do not connect the XT60 and USB Type-C ports on the top of the device (power inputs) at the same time.

NEVER USE CHARGER UNSUPERVISED

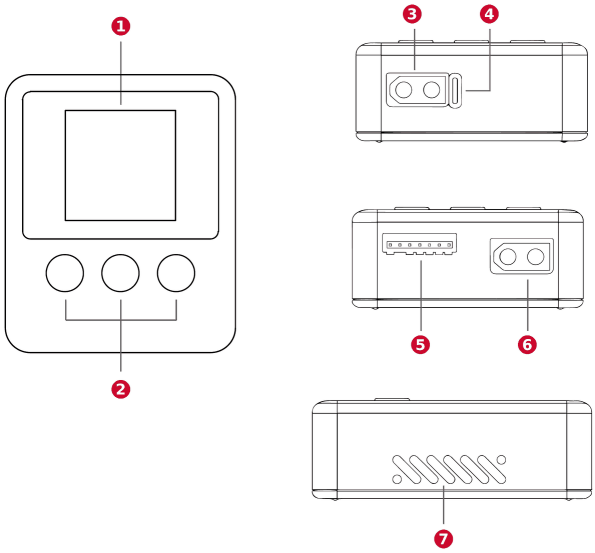
- Never attempt to charge primary (non-rechargeable) batteries.
- Batteries pose a severe risk of fire if not properly handled.
- Read the entire operation manual before using the charger.
- This unit may emit heat during use.
- Only operate this device in a cool ventilated area away from flammable objects.
- Failure to observe safety procedures may cause damage to property or injury.

1.2 Battery charging rules

- Do not charge a damaged, swollen or overheated battery. Let the battery cool down after a flight.
- Set the battery type and cell count matching the battery. For Li-Po, LiHV and LiFe also connect the balance plug.
- Charge Li-Po batteries in a fireproof bag. A fully charged Li-Po cell has 4.20 V, a LiHV cell 4.35 V; for storage leave 3.8 V/cell.

2. Product Description

2.1 Parts of the device



Front, top, bottom and side of the device

① Display screen	⑤ Balance port
② Buttons	⑥ DC input/output (XT60) – battery
③ Power input (XT60)	⑦ Fan vent
④ USB-C input/output	

2.2 Function buttons

Left button	The screen content scrolls to the left.
Right button	The screen content scrolls to the right.
Middle button	Short press – confirm the current operation. Long press – enter the menu.

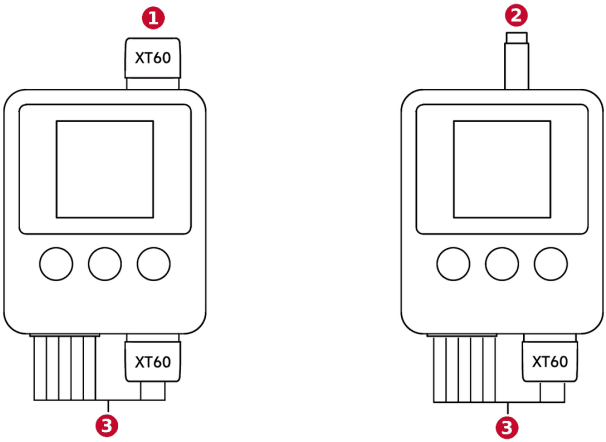
2.3 Manufacturer

Manufacturer	SHENZHEN ISD TECHNOLOGY CO., LTD
Address	Room 17F1703, Building 2, Runzhi R&D Center, No. 5, Runfang Road, Block 70, Xingdong Community, Xin'an Street, Bao'an District, Shenzhen, Guangdong, China
E-mail / web	info@szisd.com · www.isdt.co

3. Connection

3.1 Charge mode

The charger can be powered from a DC power supply (or another battery) via the XT60 connector, or from a USB-C power adapter with the PD protocol. The battery being charged is connected with its XT60 power connector and balance plug on the bottom of the device.



Left: DC power supply, right: USB-C power supply

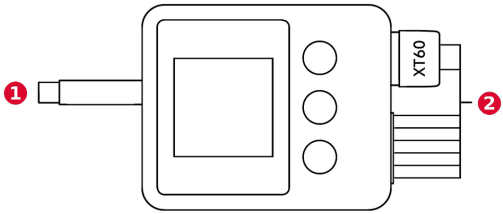
① DC input XT60 (10 A / 240 W)

② USB-C input (5 A / 140 W)

③ Battery output (XT60 and balance plug)

3.2 Discharge mode (USB output)

In discharge mode, the connected battery powers the charger, which uses it to charge other devices via the USB-C port (see chapter 6).



Charging USB Devices from a Battery

① USB-C output (100 W)

② Battery input (XT60 and balance plug)

4. Product Specifications

4.1 Charger specifications

Max. input current	DC 10 A, USB-C 5 A
Input voltage	DC 5–30 V, USB-C 5–28 V
Output voltage	DC 3.0–30 V
Charging current	0.5–10.0 A
Max. charging power	240 W / 10 A
Max. discharging power	USB-C 100 W / 5 A
Balance current	0.8 A/cell max.
Supported battery types and cells	LiFe, LiPo, LiHV (4.35–4.50 V) 1–6S Pb 1–12S NiMH 1–16S
Abnormal voltage alarm	supported
Incorrect cell count setting alarm	supported
USB PD support	PD 2.0 / 3.0 / 3.1 – input and output
Working temperature	0–40 °C
Storage temperature	−20 °C to 60 °C
Dimensions	72.5 × 60 × 26.6 mm
Weight	85 g (±10%)

4.2 Preset battery types and task parameters

	NiCd/NiMH	Pb	LiFe	LiPo	LiHV
Rated voltage	1.20 V	2.00 V	3.20 V	3.70 V	3.80 V
Full charge voltage	1.40 V	2.40 V	3.65 V	4.20 V	4.35–4.50 V
Balance charge	✗	✗	✓	✓	✓
Unbalanced charge	✓	✓	✓	✓	✓
Supported cell count	1–16S	1–12S	1–6S	1–6S	1–6S
Max. charging current	10.0 A	10.0 A	10.0 A	10.0 A	10.0 A

4.3 How to confirm charging current

Make sure you know the maximum charging current of the battery before charging. Never use excessive current, which damages the battery and may result in overheating or even explosion during the charging process.

The charging and discharging capacity of a battery is usually marked with a C value. Multiplying the charging C value by the battery capacity gives the maximum charging current supported by the battery. For example, for a 1000 mAh battery with a charging capacity of 5C, the maximum charging current is 1000 × 5 = 5000 mA, i.e. 5 A.

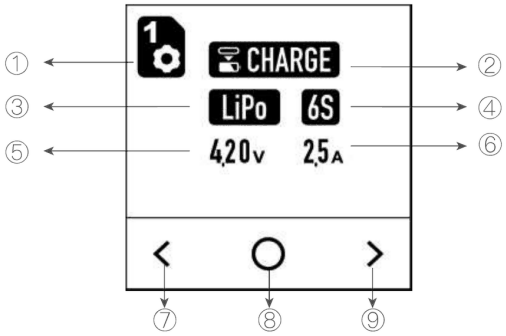
For a lithium battery, if it is impossible to confirm the supported charging C value, set the charging current below 1C for the sake of safety.

Reference relation between C value and charging time: charging time ≥ 60 minutes / charging C value (e.g. charging at 1C takes around 60–70 minutes). Due to differences in battery conversion efficiency, the charging time may be extended.

5. Operating the Charger

5.1 Task selection

Connect the 608PD to the power supply and connect the battery. Short/long press the middle button to enter the charging parameter selection interface:



Task selection interface

① Preset task sequence number (up to five preset charging parameter sets)

② Mission sign

③ Battery type

④ Battery cell count

⑤ End-of-charge condition (battery full charge voltage)

⑥ Charging current

⑦ Left button indication

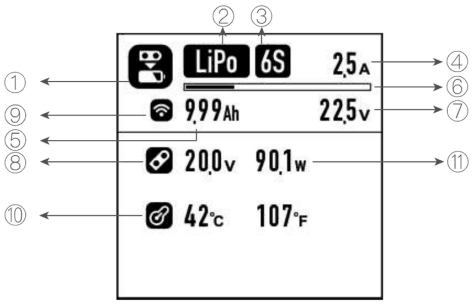
⑧ Menu key indication

⑨ Right button indication

5.2 Modifying parameters and starting a task

- In the task selection interface, **long press the middle button** to enter the parameter modification mode; the modifiable parameters will flash.
- Short/long press the left/right button to modify the parameter value; short press the middle button to switch to the next parameter.
- **Long press the middle button** to save and exit the parameter modification mode.
- In the task selection interface, **short press the middle button** to start the current task; long press the left/right button to return to the main page.
- During the charging task, the charging current can be adjusted by long pressing the middle button; short pressing the middle button ends the current task.

5.3 Charging screen



Charging screen

① Charging sign
② Battery type
③ Battery cell count
④ Charging current
⑤ Battery charged capacity
⑥ Percentage of power
⑦ Current battery voltage
⑧ Input voltage sign
⑨ Wireless connection sign
⑩ Temperature
(11) Input power

▶ Charging sign ①

Standby mode.

Powered by DC power supply and charging.

Powered by PD protocol and charging.

The status indicator turns green upon completion of the task.

▶ Input voltage sign ⑧

Powered by DC power supply.

Powered by USB Type-C power supply.

The two numbers next to the sign are the input voltage and input power. If the PD protocol is used, the amount of power supplied can be displayed. The temperature ⑩ is shown in Celsius and Fahrenheit.

While the charger is working, the display can be switched using the left and right buttons. The voltage per cell of the battery can only be displayed when the

balance cable is connected. The internal resistance screen can only be displayed during the constant current charging stage.

5.4 Protection and other functions

- For safety reasons, when using a DC power supply or battery power supply, the charger will prompt you to set a minimum input voltage limit. When the voltage is detected to be lower than this value, the charger stops working and reports an error.
- In addition to the normal charging function, the product also supports the connection of a separate battery charging cable and balance cable to determine the battery voltage.
- When using DC or battery power, the system enters the hibernation state after one minute without operation. Press any button to wake it up.

6. Charging USB Devices from a Battery

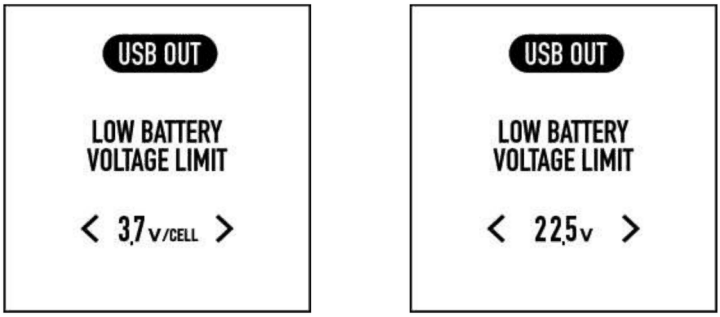
This product supports PD 2.0/3.0/3.1 input and output. When necessary, you can power the 608PD from an RC battery and use it to charge phones and other electronic devices with the PD protocol or USB-C.

① Connect the battery charging cable and the balance cable.

② Short press the middle button to enter the interface for modifying the minimum voltage limit of the battery (see the picture below: left with the balance cable connected, right without the balance cable).

③ Short press OK to save and start the task; long press to cancel saving and return to the main page.

④ Connect the USB device to be powered after the task starts.



Low battery voltage limit – per cell (left) and total (right)

The RC battery itself can be charged from an ordinary USB-C adapter, from a DC power supply or from another battery.

7. ISD Link App

The charger connects to the ISD Link app on your phone wirelessly via Bluetooth. The connection status is shown by sign ⑨ on the charging screen.

① Scan the QR code below or search for the **ISD Link** app to download and install it.

② Turn on wireless communication on your phone before opening the app.

③ Tap the “+” sign in the top right corner of the app and bring your phone close to the running device.

④ Tap the device to be connected and confirm on the device.

⑤ Wait for the device to be added before starting to use it.

Download ISD Link

All product photos, statements and literature are for reference only. For up-to-date information, please visit the official website www.isdt.co.

8. Information for the EU and Czech Market

The information in chapters 8 and 9 describes the situation in the Czech Republic. If you use the product in another country, you must comply with the regulations of that country – the law of the country of operation applies.

8.1 Importer and responsible person in the EU

The product is placed on the European Union market by the importer stated below, who is at the same time the responsible person within the meaning of Article 16 of Regulation (EU) 2023/988 of the European Parliament and of the Council on general product safety (GPSR).

Importer / responsible person in the EU	Rotorama, s.r.o.
Company ID (IČO)	051 57 692
VAT ID (DIČ)	CZ05157692
Registered office	Okrajová 1351, 674 01 Třebíč, Czech Republic
E-mail	info@rotorama.cz
Phone	+420 252 252 098
Website	www.rotorama.cz

8.2 Product conformity

CE

- The product bears the **CE** marking and complies with the requirements of the applicable European Union harmonisation legislation.
- A copy of the **EU Declaration of Conformity** is available from the importer at the address stated above or at the e-mail address info@rotorama.cz.
- **Product identification:** the type designation (608PD) and production data are given on the label of the device and on the packaging.

8.3 Disposal of electrical equipment



- The crossed-out wheeled bin symbol on the product, its packaging or in the documentation means that at the end of its service life the product **must not be disposed of together with mixed municipal waste**.
- Hand it over at a take-back point for electrical equipment – at a collection yard, at a take-back point of a collective system, or at the retailer when purchasing a new equivalent product. Take-back is free of charge for the end user.
- The obligations under Act No. 542/2020 Coll., on end-of-life products, are fulfilled by the importer through a collective take-back system.
- Proper disposal helps prevent negative impacts on the environment and human health and contributes to the reuse of secondary raw materials.

Through its contractual partner **ASEKOL a.s.**, the company ensures the take-back of waste electrical equipment from households and the separate collection of waste electrical equipment, batteries and accumulators in accordance with the applicable legislation. The customer is entitled to hand over old electrical equipment or a battery or accumulator at any collection point of the above contractual partner. The addresses of these take-back points are listed at www.asekol.cz, www.ecobat.cz and also https://visoh2.mzp.cz/RegistrMistZO/RegistrMistZOPublic/MapaMistZpetOdberu.

9. Warranty and rights arising from defective performance

The rights and obligations of the contracting parties are governed by Czech law, in particular by Act No. 89/2012 Coll., the Civil Code, and Act No. 634/1992 Coll., on consumer protection. Any warranty terms of the manufacturer **do not in any way limit** the buyer's rights arising from these regulations.

- The seller is liable to the buyer for the product being free of defects on receipt. If the buyer is a consumer, a defect may be notified **within two years of receipt** of the product (Section 2165 of the Civil Code).
- If a defect appears within **one year** of receipt, the product is deemed to have been defective already at the time of receipt (Section 2161(5) of the Civil Code).
- When purchasing online, a consumer has the right to **withdraw from the contract within 14 days** of receiving the goods without giving a reason (Section 1829 of the Civil Code).
- Claims should be made with the retailer from whom you purchased the product. The importer's contact details are given in Chapter 8.1.
- The competent body for out-of-court settlement of consumer disputes is the **Czech Trade Inspection Authority**, Štěpánská 796/44, 110 00 Prague 1, www.coi.cz.