



FD-200

200 W Smart Battery Discharger
User Manual



Read the entire manual before first use. Never leave the discharger operating unsupervised - fire hazard!

ISDT · Shenzhen ISD Technology Co., Ltd.

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1. Safety instructions

Thank you for purchasing the ISDT FD-200 smart discharger. For your safety and best user experience, please read this manual and follow all instructions before using your new discharger.

WARNING – FIRE HAZARD! Never use the discharger unsupervised.

- Batteries pose a severe risk of fire if not properly handled.
- Read the entire operation manual before using the discharger.
- This unit may emit lots of heat during use. Only operate this device in a cool, ventilated area away from flammable objects.
- Keep the product away from humidity and high temperature while discharging, and ensure the cooling fan area is not blocked.
- Before connecting the battery, check that the battery voltage is within the working voltage range of the FD-200 (DC 7–35 V).
- Always be certain the number of cells selected is correct.
- Do not allow children to operate the discharger. The product is intended for persons aged 14 and over.
- Failure to observe safety procedures may cause damage to property or injury.

1.1 General rules for handling Li-Po batteries

- Do not discharge a battery that is swollen, mechanically damaged, has damaged cable insulation or behaves unusually after a fall or impact.
- Place the discharger and the battery on a non-flammable surface. We recommend keeping a suitable fire extinguishing agent at hand.
- Do not touch the cooling fins during discharging – they may be hot. Let the device cool down after use.
- Do not discharge the battery below the voltage recommended by its manufacturer. Deep discharge damages the battery permanently.
- For long-term storage, Li-Po and LiHV batteries are discharged to the storage voltage of **3.8 V/cell** (e.g. 4S = 15.2 V, 6S = 22.8 V).

2. Specifications

Parameter	Value
Input voltage range	DC 7–35 V
Max. discharging power	200 W
Supported batteries	2–8S
Discharging current	5–25 A (button: 5, 10, 15, 20 or 25 A)
Cut-off voltage	3.3–3.8 V/cell (set in the isd GO app)
Automatic power-off after completion	yes
Error alarms	incorrect cell count setting, abnormal battery voltage, overheating, over current
Wireless connection	Bluetooth – isd GO app
App requirements	Android 5.0 / iOS 10.3 or later, Bluetooth BLE 4.0 or higher
Size	142 × 100 × 63 mm
Weight	790 g

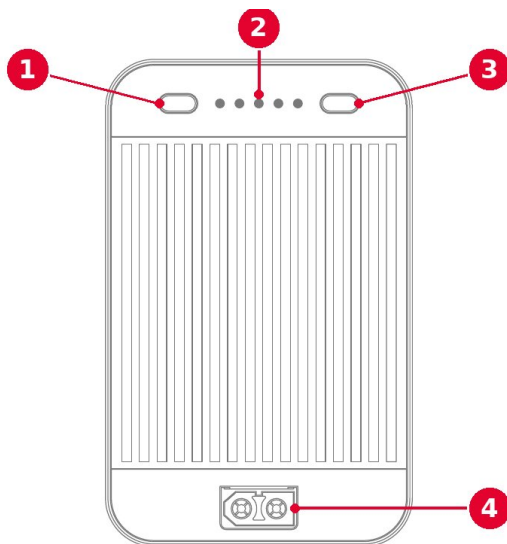
※ All pictures, statements and text in this manual are for reference only. Please refer to the actual information on the manufacturer's official website www.isdt.co.

2.1 Manufacturer

SHENZHEN ISD TECHNOLOGY CO., LTD

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
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3. Device overview



Front view of the FD-200 discharger

- ① **Current selection button** (left)
- ② **Working status indicator** – five LEDs show the settings, discharging progress and errors
- ③ **Cells selection button** (right)
- ④ **Battery input port**

4. Operation

4.1 Power on

- ① **Power on:** connect the battery that needs to be discharged. The discharger is powered directly from it.
- ② **Turn on:** short press any button. The LEDs light up white – the device is in standby state.

4.2 Setting the battery cell count

Press the **right button** ③ repeatedly. The number of cells circulates from 2S to 8S progressively and the white LEDs turn on from left to right with each press. For 7S, the first and fourth LEDs are on at the same time; for 8S, the first and fifth LEDs (see the table in chapter 4.3).

4.3 Setting the discharging current

Press the **left button** ① – the LED turns purple (red + blue). Select the current with further presses. A single LED is lit; from left to right they indicate a current of 5 A, 10 A, 15 A, 20 A and 25 A.

LEDs	Cells (white)	Current (purple)
● ○ ○ ○ ○	2S	5 A
○ ● ○ ○ ○	3S	10 A
○ ○ ● ○ ○	4S	15 A
○ ○ ○ ● ○	5S	20 A
○ ○ ○ ○ ●	6S	25 A
● ○ ○ ● ○	7S	–
● ○ ○ ○ ●	8S	–

4.4 Starting the discharge

- **Manual start:** long press any button until the LEDs turn green, indicating the start of discharge.
- **Automatic start:** when the discharger is connected to a mobile phone via Bluetooth and automatic discharge is turned on, it waits for 5 seconds in standby state and then starts discharging automatically.

4.5 Changing settings and stopping the discharge

- To switch the current or the number of cells during discharge, press any button twice. The discharge restarts three seconds after the change.
- Long press any button during discharge to return the device to standby state.

4.6 Power off

After the discharge is completed or in standby state, the device powers off automatically after one minute. Then disconnect the battery.

5. isd GO app (Bluetooth)

- ① Download and install the **isd GO** app on your phone.
 - ② Turn on Bluetooth on your phone and open the isd GO app.
 - ③ Press and hold the left and right buttons on the FD-200 at the same time. The LEDs blink blue – the device is ready to be paired.
 - ④ After the connection is successful, the LEDs turn white and the discharger enters standby state.
- ※ A connection timeout returns the FD-200 to standby state.

You can set the following parameters in the app:

Parameter	Range
Cut-off voltage	3.3–3.8 V/cell
Discharging current	5–25 A
Battery cells	2–8S
Automatic discharge	on / off

- ※ To store a Li-Po or LiHV battery, set the cut-off voltage to **3.8 V/cell**.

6. LED indicators

6.1 LED colours

Colour	Working state
White	Standby / discharging – battery cell count shown
Purple	Standby / discharging – current shown
Blue	Bluetooth (blinks during pairing)
Green	Discharging
Cyan	Completed
Red	Error
Red, green, blue flashing alternately	Firmware upgrading

6.2 Discharging progress

During discharge, the green LEDs indicate the remaining battery capacity. The ● symbol marks a blinking LED.

LEDs	Colour	Capacity
● ● ● ● ● ●	green	more than 80 %
● ● ● ● ● ○	green	60–80 %
● ● ● ● ○ ○	green	40–60 %
● ● ● ○ ○ ○	green	20–40 %
● ● ○ ○ ○ ○	green	less than 20 %
● ● ● ● ● ●	cyan	discharge completed

6.3 Error messages

In case of an error, one LED lights up red. Its position indicates the type of error:

LEDs	Error
● ○ ○ ○ ○	The number of cells is set too low
○ ● ○ ○ ○	The number of cells is set too high
○ ○ ● ○ ○	Temperature is too high ($\geq 80^{\circ}\text{C}$)
○ ○ ○ ● ○	Over current
○ ○ ○ ○ ●	Error

7. Troubleshooting

Symptom	What to do
The device does not respond after connecting the battery	Check that the battery voltage is within DC 7–35 V and that the connector is plugged in correctly and firmly. Then short press any button.
Error: cell count too low / too high	Disconnect the battery or return to standby state and set the number of cells matching the connected battery (see the battery label).
Error: temperature too high	Stop discharging and let the device cool down. Check that the cooling vents and fan are not covered and that the device is not placed in a warm spot. Then select a lower discharging current.
Error: over current	Select a lower discharging current. Check the battery and its cable and connector for damage.
General error	Disconnect the battery and reconnect it after a while. If the error persists, stop using the device and contact your dealer.
The phone does not connect to the discharger	Check that Bluetooth is turned on on the phone and that the isd GO app is running. Hold both buttons to start pairing again.

8. Information for the EU and Czech Market

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@rotorاما.cz
Phone	+420 252 252 098
Website	www.rotorاما.cz

8.2 Product conformity



- 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@rotorاما.cz.
- **Product identification:** the type designation (FD-200) and the manufacturer's details are given on the rating label on the top of the device.

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.