ADP100

ToolkitRC — mains power supply 20 V / 5 A (100 W)
User manual



Read the safety instructions in Chapter 3 before first use. Keep this manual for future reference.

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1. Product description

1.1 Intended use

The **ToolkitRC ADP100** is a compact mains power supply providing DC voltage. It converts AC 100–240 V mains voltage into a DC voltage of **20 V** and supplies a current of up to **5 A**, i.e. a power of up to **100 W**. The output is terminated with an **XT60** connector.

The power supply is intended mainly for powering battery chargers and other devices with an XT60 DC input from a mains socket. It is small and light, so it is easy to take with you to the flying field or when travelling. The housing has no exposed metal parts or terminals.



ADP100 power supply with the EU mains cable

1.2 Technical data and package contents

Parameter	Value
Type designation	ADP100 (ToolkitRC)
Product type	mains power supply (AC adapter)
Input voltage	AC 100–240 V, 50/60 Hz
Input current	1.5 A (according to the rating label)
Output voltage	DC 20.0 V
Output current	max. 5.0 A
Output power	max. 100 W
Output connector	XT60
Protection	overcurrent protection
Dimensions	90 × 90 × 32 mm
Weight	215 g
Operating temperature	−10 °C to 40 °C

▶ Package contents

- 1× ToolkitRC ADP100 mains power supply
- 1× mains cable with EU plug

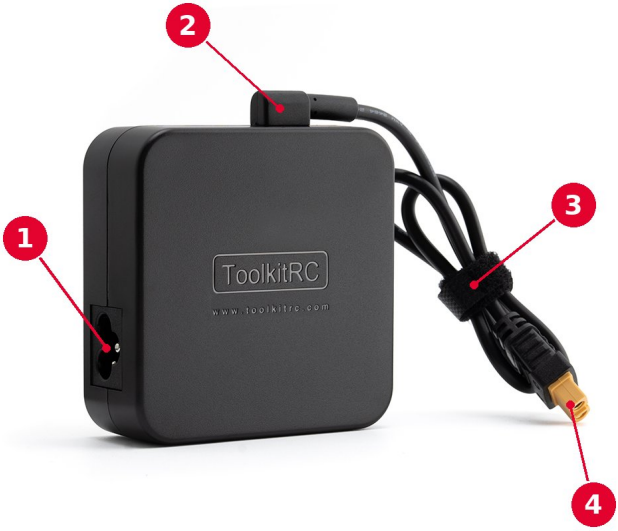
▶ NOT included in the package

- a charger or any other powered device,
- batteries,
- adapters from the XT60 connector to other connector types.



Package contents

1.3 Parts of the power supply



Parts of the ADP100 power supply

① Input socket for the mains cable (on the side of the power supply)

② Permanently attached output cable

③ Hook-and-loop strap for coiling the cable

④ XT60 output connector (DC 20 V)

The rating label on the back of the power supply shows the type designation, the input and output ratings and the conformity marks.



Rating label on the back of the power supply

2. Use

2.1 Before connecting

- Make sure the powered device has an **XT60** DC input and, according to its manufacturer's data, accepts an input voltage of **20 V**.
- The power consumption of the powered device must not exceed **100 W** (current draw max. **5 A**).
- Check that the power supply, the mains cable and the output cable are not damaged.

2.2 Connection and operation

1. Place the power supply on a flat, firm and non-flammable surface so that air can circulate freely around it.
2. Connect the XT60 output connector ④ to the DC input of the charger or other device. Push the connector fully home.
3. Plug the mains cable into the input socket ① on the side of the power supply.
4. Plug the mains cable into a mains socket. The power supply starts supplying voltage.

2.3 Powering a charger

A charger draws more energy from the power supply than it delivers to the battery — part of it is converted into heat. Therefore set the charging power with a margin so that the total power consumption of the charger does not exceed **100 W**. With a multi-channel charger, the power of all channels adds up.

If the charger allows you to limit its input power or input current, set the limit no higher than the ratings of the power supply (100 W, 5 A).

Never connect the output of the power supply to a battery. The power supply is intended only for powering devices; always charge batteries with a charger.

2.4 Ending operation

1. Stop the powered device (e.g. finish or stop charging).
2. Unplug the mains cable from the socket — pull the plug, not the cable.
3. Disconnect the XT60 connector from the powered device.
4. Coil the cable loosely and secure it with the hook-and-loop strap ③. Do not kink the cable close to the housing or the connector.

3. Safety instructions

The power supply is connected to mains voltage. Failure to follow these instructions may result in electric shock, fire or damage to the connected device.

- Connect the power supply only to a mains socket with AC 100–240 V, 50/60 Hz. Use the supplied mains cable.
- The power supply is intended for use in dry indoor locations. Protect it from water, moisture, condensation, dust and direct sunlight.
- Operate the power supply only within the operating temperature range of −10 °C to 40 °C.
- Do not cover the power supply during operation and do not place it on flammable materials (fabric, paper, carpet). The housing gets warm at full load.
- Do not exceed the output power of 100 W or the output current of 5 A.
- Do not short-circuit the XT60 output connector and do not connect it to a battery.
- Do not use the power supply if its housing, cable, plug or connector is damaged. Do not open the housing — there are dangerous voltages inside and the power supply contains no user-serviceable parts.
- Do not modify the power supply or its cables (shortening the cable, replacing the connector).
- Do not leave batteries unattended while charging from a charger powered by this power supply, and follow the instructions of the charger and battery manufacturers.
- The power supply is not a toy. Keep it out of the reach of children and animals.
- Unplug the power supply from the mains socket when not in use.

▶ Regulations of the country of use

The information in Chapters 5 and 6 is based on the law of the European Union and the Czech Republic. If you use the product in another country, follow the regulations of the country in which you operate it — the law of the country in which the product is operated is decisive.

4. Maintenance, storage and troubleshooting

4.1 Maintenance and storage

- Before cleaning, disconnect the power supply from the mains and from the powered device.
- Wipe the housing with a dry soft cloth. Do not use water, solvents or cleaning sprays.
- Keep the contacts of the XT60 connector clean and dry.
- Store the power supply in a dry place, away from direct sunlight and heat sources. Do not kink the cable during storage.

4.2 Troubleshooting

Problem	Possible cause and solution
The connected device does not switch on	Check that the mains cable is plugged into both the power supply and the socket and that the socket is live. Check that the XT60 connector is pushed fully home.
The power drops out during operation	The current draw of the device probably exceeds the capability of the power supply and the overcurrent protection trips. Unplug the power supply from the mains, reduce the charging power or the charger's input power below 100 W and reconnect the power supply.
The power supply is very hot	Ensure free air circulation around the power supply, do not cover it and reduce the load. Observe the operating temperature range.
Damaged cable, connector or housing	Unplug the power supply from the mains immediately and do not use it any further. Contact your retailer.

5. Information for the EU and Czech Market

5.1 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.com

5.2 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 (ADP100) is given on the rating label on the back of the power supply.

5.3 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.

6. 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.

- 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 5.1.
- 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.