GNB A30

Power connector for 1S batteries (1 pair)
User manual



Read this manual before installation and use. When soldering, observe the correct polarity and do not short-circuit the battery.

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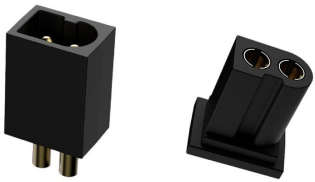
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1. Product description

1.1 Intended use

GNB A30 is a power connector designed for small FPV drones powered by a single-cell (1S) battery, typically so-called Tinywhoops. It is used to connect the battery to the drone and to connect the battery to a charger. The connector is rated for a continuous current of 15 A and, compared with the commonly used PH2.0 connector, has lower resistance and therefore a lower voltage drop under load.

The package contains one pair – the female **A30-F** for the drone side and the male **A30-M** for the battery side. The connectors come without wires; you solder them onto the lead of the drone, battery or charging cable. Compatibility with BT2.0 is described in Chapter 2.3.



Left: female A30-F (drone side), right: male A30-M (battery side)

1.2 Specifications and package contents

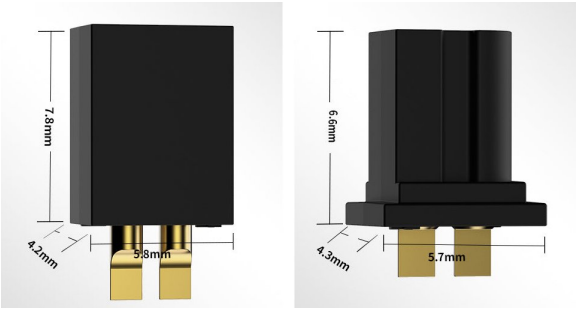
Parameter	Value
Designation	GNB A30 – female A30-F, male A30-M
Continuous current	15 A
Peak current	30 A
Contact resistance	1.6 mΩ
Withstand voltage	500 V DC
Recommended wire	20 AWG / 22 AWG
Operating temperature	−20 °C to 120 °C
Flammability rating	UL94 V-0
Dimensions A30-F (H × W × D)	7.8 × 5.8 × 4.2 mm
Dimensions A30-M (H × W × D)	6.6 × 5.7 × 4.3 mm
Weight	A30-F approx. 0.36 g; A30-M approx. 0.24 g
Package contents	1× female A30-F, 1× male A30-M
Not included	wires, heat-shrink tubing, adapters

2. Use

2.1 Drone side and battery side

The manufacturer GNB defines “male” and “female” by the plastic housing, not by the metal contacts. This is **the opposite of XT30 and XT60 connectors**:

- The **female A30-F** (taller housing, pins inside) goes on the **drone** or on a charging cable.
- The **male A30-M** (lower housing with a flange, sockets inside) goes on the **battery**.



Dimensions: left female A30-F, right male A30-M (values in mm)

2.2 Soldering the connector

※ If you solder the connector directly onto battery leads, always work on one wire at a time and keep the other insulated. A short circuit of a Li-Po battery can cause burns or fire.

① Cut the wires to the required length and strip only as much insulation as corresponds to the length of the solder contact. Use 20 AWG or 22 AWG wire.

② Slide a piece of heat-shrink tubing onto each wire – this will not be possible after soldering.

③ Tin the wire ends and the solder contacts of the connector.

④ Before soldering, compare the connector with the mating part you will connect (battery, drone, charger) and check which contact will be positive (+) and which negative (−). The positive pole is usually on the red wire, the negative on the black wire. The polarity must be the same on the drone side and on the battery side.

⑤ Solder the wires quickly using a sufficiently powerful soldering iron. Do not heat the contact longer than necessary so that the plastic housing is not damaged.

⑥ Slide the heat-shrink tubing over the joints and shrink it. No bare metal part may remain exposed.

⑦ After cooling, check the polarity with a multimeter, and only then connect the battery.

2.3 Compatibility with BT2.0 and PH2.0

- A battery with an A30 connector can be charged in a charger with a BT2.0 connector and can power a drone with a BT2.0 connector.
- The reverse combination – a battery with a BT2.0 connector in a drone with an A30 connector – is not supported by the manufacturer, because the A30 housing has a different shape.
- The A30 connector is not compatible with PH2.0. Charging in a charger with PH2.0 requires an adapter, which is not included.

2.4 Safe use and inspection

- Do not exceed the continuous current of 15 A stated in Chapter 1.2.
- Connect and disconnect the connector by its housing; never pull on the wires.
- Regularly check that the connector holds firmly, that the contacts are not blackened or bent and that the housing is not deformed by heat. Replace a damaged connector immediately.
- If the connector becomes noticeably hotter than usual during flight, check the solder joints and contact wear.
- Protect the connectors from moisture, dust and dirt; do not use them when wet.
- Store unused batteries so that the connector contacts cannot be short-circuited by a metal object.

3. Information for the EU and Czech Market

3.1 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

3.2 Disposal



- 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.

4. 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 3.1.
- 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.