USB-C 5V Battery charger

User manual

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1. Product overview



Fig.1. USB-C 5V Battery charger

Compact USB Type-C battery charger for rechargeable cylindrical batteries of the following formats: 10440, 14500, 16340, 16650, 14650, 18350, 18500 and 18650. Powered from a 5 V USB source, with an output (charging) current of 500 mA. The LED indicator shows the charging status, and multiple protection functions ensure safer everyday charging. Compact and lightweight design.

2. Operation

2.1. Charging Batteries

1. Connect the supplied charging cable to the USB Type-C port of the charger.
2. Connect the other end of the cable to a 5 V USB power source, such as a standard USB power adapter (not included).
3. Insert a rechargeable battery of a compatible format into the charger, observing the correct polarity (+/−).
4. The indicator lights up red while the battery is charging.
5. When the indicator turns green, the battery is fully charged. Remove the battery from the charger.

2.2. Charging Indicator

Colour	Function
Red	Charging in progress
Green	Fully charged

2.3. Protection Functions

The charger is equipped with the following protection functions:

- Overcharge protection
- Overcurrent protection
- Overtemperature protection
- Short-circuit protection
- Over-discharge protection
- Reverse polarity protection

3. Maintenance

- Wipe the housing with a soft, dry cloth.
- Do not use abrasive cleaners or solvents, as they may damage the surface.
- Keep the USB Type-C port and battery contacts free of dust and debris to maintain optimal charging performance.
- Use the charger at an ambient temperature of 0 – 40 °C and a humidity of 20 – 95 % RH (non-condensing).
- Store the charger at a temperature of -30 – 50 °C.

4. Troubleshooting

Issue	Solution
Indicator does not light up with a battery inserted	Make sure the Type-C cable is securely connected on both ends and the power source supplies 5 V; try a different cable/adapter
Battery is not charging	Remove the battery and reinsert it, observing the correct polarity (+/−); make sure the battery format is compatible and the contacts are clean
Charging takes a long time	Charging time depends on the battery capacity; the charging current is 500 mA
Charging stops and the charger is warm	The overtemperature protection may have been activated. Disconnect the charger, let it cool down and use it at 0 – 40 °C
Green indicator turns on immediately	The battery may already be fully charged

Contacts:

WhatsApp: +420 777 054 888

Email: support@partizan.global

Telegram: https://t.me/PartizanSupport_bot