



BTRY T150



About BTRY

BTRY is a startup from Switzerland and a spin-off from ETH Zürich and Empa with a clear vision to electrify applications previously limited by energy storage.

BTRY develops thin-film solid-state batteries which combine high energy and power density with high temperature stability, in an ultra-thin form factor, enabling the next-generation of IoT devices.

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**Start the conversation
to energize your
application!**

Small battery,
endless possibilities

BTRY T150 Product Specification

Product Description

The BTRY T150 provides stable energy delivery and can sustain temperatures up to 150 °C. Combining ultra-thin and solid-state design with strong pulse capability for sensors, trackers, and other micro devices with high safety requirements.

Specifications

Type	Thin-film solid-state lithium-ion battery
Dimensions (L x W x H)	30 mm x 25 mm 0.2 mm
Nominal voltage	3 V
Nominal capacity	5 mAh
Rechargeable	Yes
Operating temperature	0 °C to 130 °C
Storage temperature	-40 °C to 150 °C
Initial impedance	~ 20 Ω (as fabricated, RT)
Weight*	0.2 g

* Calculated at the cell level, excluding packaging and contact tabs.

Charging / Discharging Characteristics

Charging characteristics	CC/CV – Constant Current / Constant Voltage
Voltage	4.3 V
Current normal	1 C – 5 mA
Max. charging current	20 C – 100 mA

Discharge characteristics	
Cut-off voltage	1.5 V
Max. discharge current	20 C – 100 mA

Storage	
Self-discharge current	< 70 nA

Additional Features

- **Flexibility:** BTRY T150 is bendable and flexible and can adapt to different shapes.
- **Customization:** BTRY T150 is customizable to fit to any surface.