BTRY

BTRY Technology



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 power your application!

Small battery,
endless possibilities

BTRY ES (1S1P) Product Specification

Product Description

BTRY's Technology provides stable energy delivery and can sustain temperatures up to 105 °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)	34 mm x 29 mm x 0.2 mm
Nominal voltage	3 V
Nominal capacity	0.25 mAh
Rechargeable	Yes
Operating temperature	-20 °C to 105 °C
Storage temperature	-20 °C to 105 °C*
Initial impedance	150 Ω
Weight*	0.2 g

* In an uncharged & unpackaged state temperatures beyond 200°C can be sustained

Charging / Discharging Characteristics

Charging characteristics	CC/CV – Constant Current / Constant Voltage
Voltage	4.3 V
Current normal	1 C – 0.25 mA
Discharge characteristics	
Cut-off voltage	1.5 V
Peak current	40 C – 10 mA
Storage	
Self-discharge current	100 nA

Additional Features

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