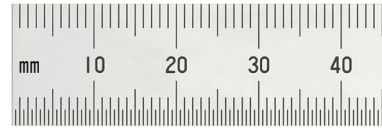


Pin-type Lithium-ion Battery



September, 2021
Panasonic Corporation

Please
access our
website.



Pin-type Lithium-ion Battery, suitable for small devices



Wireless Earphones



Hearing Aids



Smart Glasses



Stylus Pen



Wristband Devices

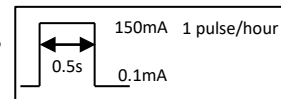
Features



- 1) Super small and slim battery realizes not only stylish designs but also high output.
- 2) A high-strength stainless exterior case provides excellent safety and reliability.
- 3) Rapid charging makes your portable devices more user-friendly.

1) Super small and slim, but high output

- ✓ Provides stylish designs for your products, as well as Bluetooth low energy, vibration and other functions which needs big discharging current.



General Li-ion
18650 size

Diameter : 3.65mm
Height : 20mm
Weight : 0.5g

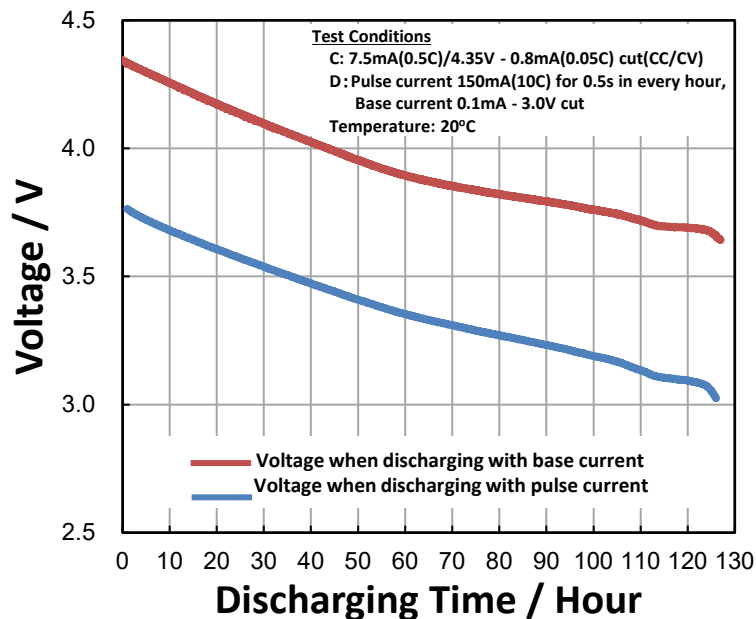
VS



CG-320B

※Image chart

CG-320B Pulse discharging result with 150mA(10C)



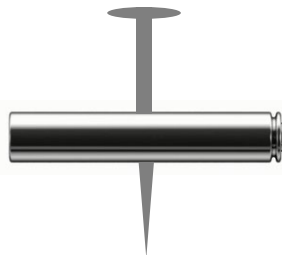
2) High-strength stainless case, high safety and high reliability

- ✓ No swelling, no explosion, no fire.
- ✓ Certified by IEC62133/UL1642.

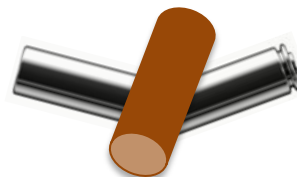
Test example



Swelling check
after 1,000 times cycle test



Nail penetration test

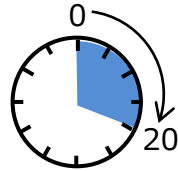


Impact test

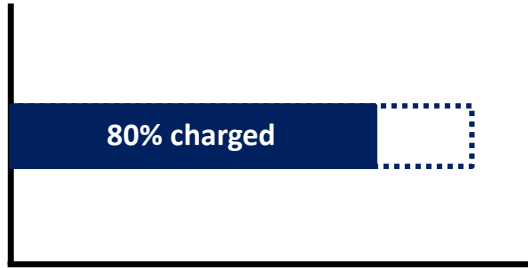
3) Rapid charging, more user-friendly

- ✓ 3C charging realizes 80% charging in 20 minutes.(CG-420A/425A only)

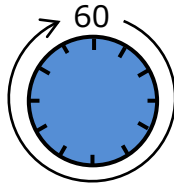
20 min. charging



CG-425A
CG-420A



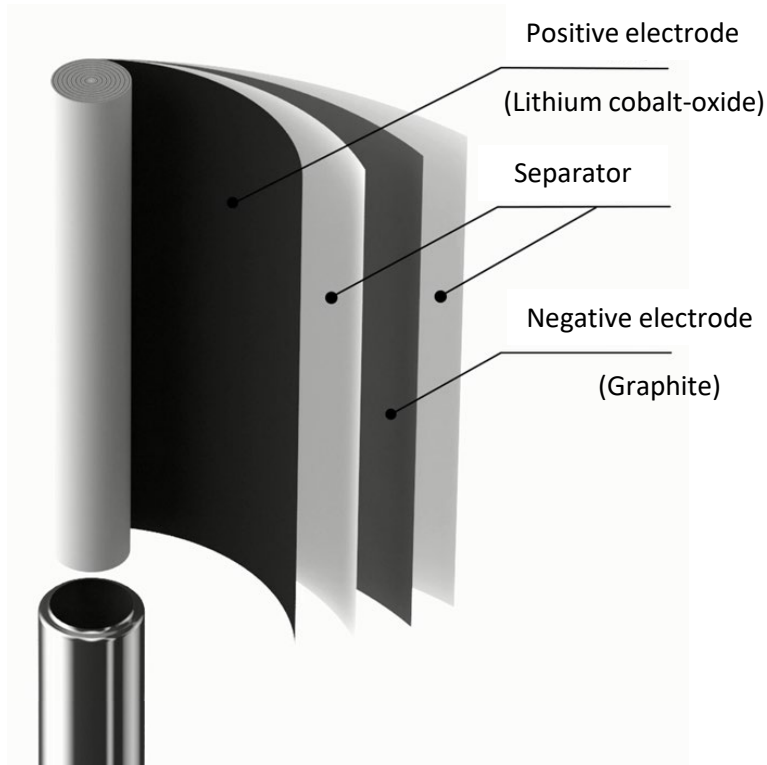
60 min. charging



CG-425A
CG-420A



Manufacturing technology



- ☑ Highly skilled battery design technology
- ☑ Highly precise manufacturing technology
- ☑ Highly quality control

Specification

Part Number		CG-320B	CG-420A	CG-425A
Size*	Diameter(Max.)	3.65mm	4.7mm	4.7mm
	Height(Max.)	20mm	20mm	25mm
Weight* (Approx.)		0.5g	0.8g	1.0g
Typical Capacity		16mAh	23mAh	32mAh
Rated Capacity		15mAh	22mAh	30mAh
Nominal Voltage		3.8V		
Maximum Charging Voltage		4.35V		
Maximum Continuous Discharging Current		30.0mA(2C)	44.0mA(2C)	60.0mA(2C)
Maximum Charging Current		11.2mA(0.75C)	66.0mA(3C)	90.0mA(3C)
Operating Temperature	Charge	0°C ~ 60°C		
	Discharge	-20°C ~ 60°C		
Certifications		IEC62133, UL1642		

* Without tabs

Pin-type Li-ion battery will make your product more attractive.



Key Benefits

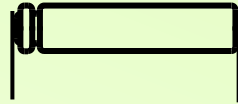
- ✓ Small & Slim
- ✓ Stylish design
- ✓ High safety & reliability
- ✓ Rapid charging
- ✓ Available for Bluetooth low energy, vibration and other functions
- ✓ Long product life time



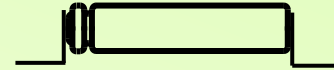
1. Standard voltage range is 3.0 – 4.35V. Protection required for over-charge/over-discharge. Please prepare protection circuit on the customer side.
2. The battery will be shipped with tabs.
Please ask a Panasonic sales person when tab customization is needed.

Standard Terminal Types

Through-hole type



Surface mount type



All models have stainless steel tab with tin (Sn) plating.

3. In order to prevent accidental ingestion of the battery, it must be inaccessible to the individual user / customer.

Any Questions?
Please feel free to ask a Panasonic sales person.

Panasonic Pin-type Lithium-ion Battery
<https://industrial.panasonic.com/ww/products/pt/pin-li-ion>