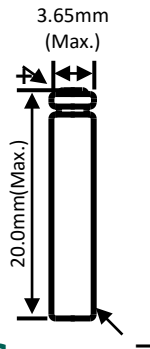
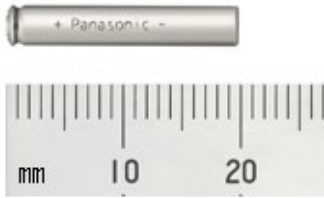


CG-320B

Pin-type Lithium-ion Battery



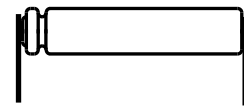
Features & Benefits

- A 3.6mm diameter pin-shaped Lithium-ion battery which expands design options for micro devices.
- A rechargeable battery that can be used repeatedly and has the output capability required for Near Field Communications.
- A high-strength metal exterior case provides excellent reliability.

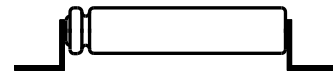
Terminal types

Panasonic offers batteries with tabs.
All models have stainless steel tab with tin (Sn) plating.

Through-hole type



Surface mount type



Applications

Hearing aids, small medical devices, wireless earphones, stylus pens, smart glasses, wristband devices and others.

Specifications

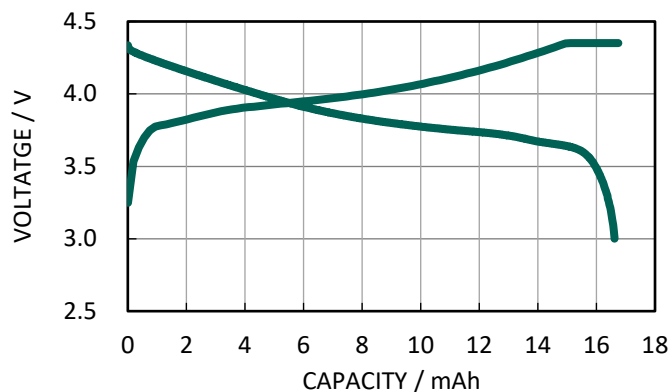
Maximum charging voltage		4.35V
Nominal Voltage		3.8V
Typical Capacity		16.0mAh
Rated Capacity		15.0mAh
Dimensions*	Diameter(Max.)	3.65mm
	Height(Max.)	20.0mm
Weight*		Approx. 0.5g
Operating Temperature	Charge	0°C to +60°C
	Discharge	-20°C to +60°C
Maximum continuous discharging current		30.0mA(2C)
Maximum charging current		11.2mA(0.75C)
Certifications		IEC62133, UL1642

* Without tabs.



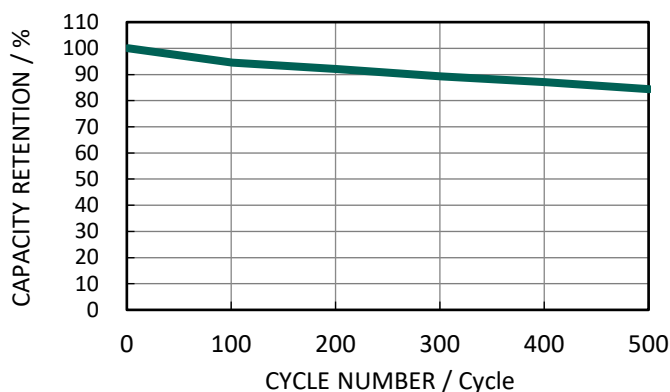
Characteristics

Charge and Discharge Characteristics



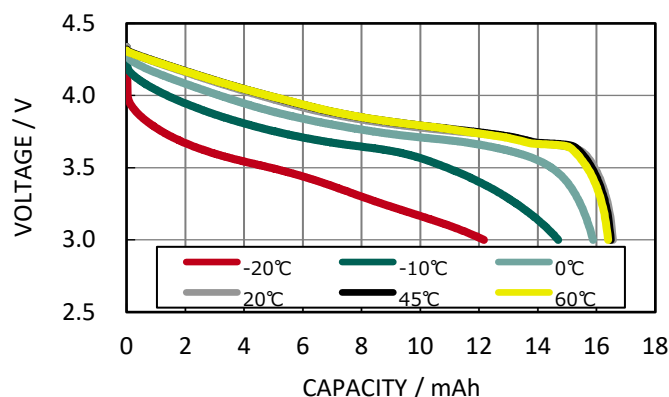
Charge Condition: CC/CV 11.2mA(0.75C) - 4.35V, 0.8mA(0.05C) cut off at 20°C
Discharge Condition: CC, 3.0mA(0.2C) - 3.0V cut off at 20°C

Cycle Life Characteristics



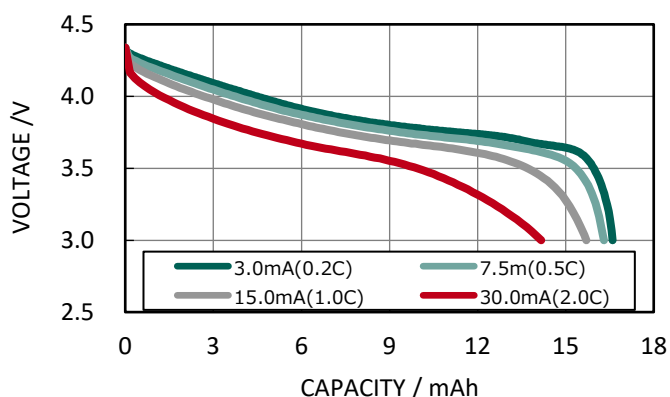
Charge Condition: CC/CV 11.2mAh(0.75C) - 4.35V, 0.8mA(0.05C) cut off at 20°C
Discharge Condition: CC, 11.2mAh(0.75C) - 3.0V cut off at 20°C

Discharge Characteristics by Temperature



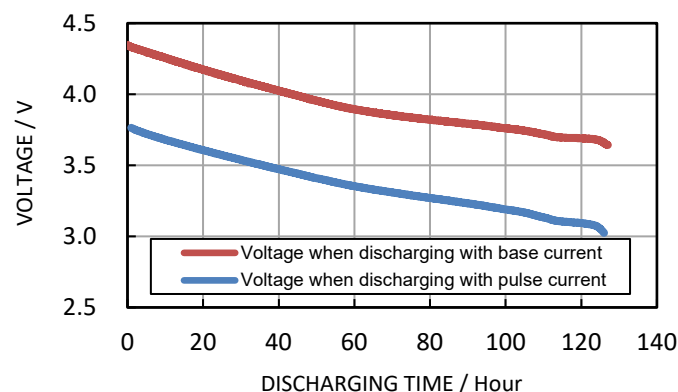
Charge Condition: CC/CV 11.2mA(0.75C) - 4.35V, 0.8mA(0.05C) cut off, 20°C
Discharge Condition: CC, 3.0mA(0.2C) - 3.0V cut off

Discharge Characteristics by Rate of Discharge



Charge Condition: CC/CV 11.2mA(0.75C) - 4.35V, 0.8mA(0.05C) cut off at 20°C
Discharge condition: CC 3.0V cut off at 20°C

Pulse Discharging Characteristics



Charge Condition : CC/CV 11.2mA(0.75C) - 4.35V, 0.3mA(0.02C) cut-off at 20°C
Discharge Condition : Pulse current 150mA(10C) for 0.5s in every hour, Base current 0.1mA, 3.0V cut-off at 20°C

150mA 1 pulse/hour
0.5s 0.1mA

Handling Guidelines

- Standard Voltage Range is 3.0 - 4.35V. Protection required for over-charge/over-discharge.
- In order to prevent accidental ingestion of the battery, it must be inaccessible to the individual user / customer. The battery will be shipped with tabs. Please attach the battery to the device.

Standard Voltage Range	3.0~4.35V
Do not over-charge	Stop charging at $4.45 \pm 0.05V$
	Allow charging again at less than $4.25 \pm 0.05V$
Do not over-discharge	Stop discharge at $2.7 \pm 0.1V$
	Allow discharging again at more than $3.3 \pm 0.1V$
Over Current Protection	Stop discharge in the case of an output connection short circuit.

Panasonic Energy Co., Ltd.

<https://industrial.panasonic.com/ww/products/pt/pin-li-ion>

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