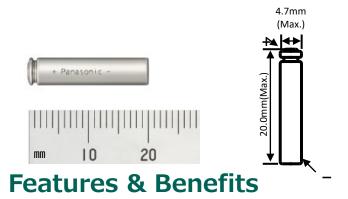


CG-420B

Pin-type Lithium-ion Battery

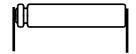


- Small and slim pin-shaped Lithium-ion battery which expands design options for micro devices.
- A rechargeable battery that can be used repeatedly and has the output capability required for Near Field Communications.
- · A high-strength metal exterior case provides excellent reliability.

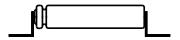
Terminal types

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		29.0mAh
Rated Capacity		27.0mAh
Dimensions*	Diameter(Max.)	4.7mm
	Height(Max.)	20.0mm
Weight*		Approx. 0.9g
Operating Temperature	Charge	0°C ∼ +60°C
	Discharge	-20°C ∼ +60°C
Maximum continuous discharging current		54.0mA(2C)
Maximum charging current		20.2mA(0.75C)
Certifications		IEC62133, UL1642

^{*} Without tabs.

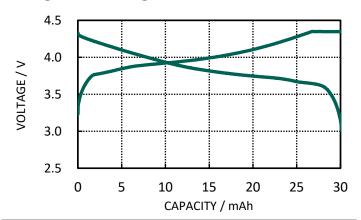
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Characteristics

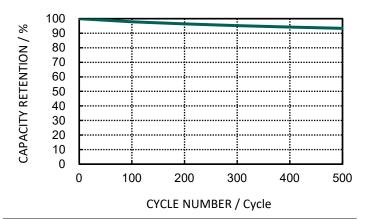
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Charge and Discharge Characteristics



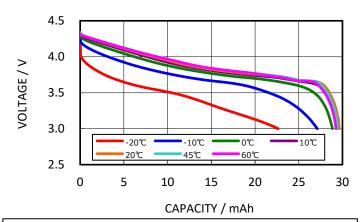
Charge Condition: CC/C20.2mA(0.75C) - 4.35V, 1.35mA(0.05C) cut-off at $20^{\circ}C$ Discharge Condition: CC, 5.4mA(0.2C) - 3.0V cut-off at $20^{\circ}C$

Cycle Life Characteristics



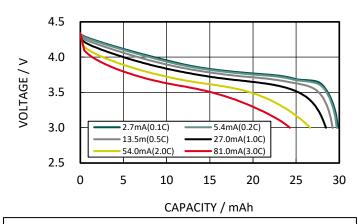
Charge Condition: CC/CV 20.3mA(0.75C) - 4.35V, 1.35mA(0.05C) cut-off at 20° C Discharge Condition: CC, 20.3mA(0.75C) - 3.0V cut-off at 20° C

Discharge Characteristics by Temperature



Charge Condition: CC/CV 27.0mA(0.05C) - 4.35V, 1.35mA(0.05C) cut-off at 20°C Discharge Condition: CC, 5.4mA(0.2C) - 3.0V cut-off at 20°C

Discharge Characteristics by Rate of Discharge



Charge Condition: CC/CV 27.0mA(1C) - 4.35V, 1.35mA(0.05C) cut-off at 20°C Discharge Condition: CC, 3.0V cut-off at 20°C

Handling Guidelines

- 1. Standard Voltage Range is 3.0 4.35V. Protection required for over-charge/over-discharge.
- 2. 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±0.05V	
	Allow charging again at less than 4.25±0.05V	
Do not over-discharge	Stop discharge at 2.7±0.1V	
	Allow discharging again at more than 3.3±0.1V	
Over Current Protection	Stop discharge in the case of an out-put connection short circuit.	

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