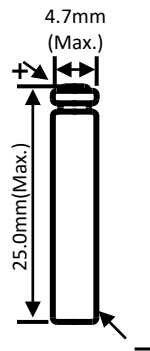


# CG-425A

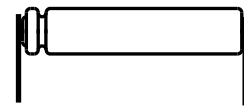
## Pin-type Lithium-ion Battery



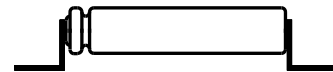
## Terminal types

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

### Through-hole type



### Surface mount type



## Features & Benefits

- A small and slim pin-shaped Lithium-ion battery which expands design options for micro devices.
- A high-strength metal exterior case provides excellent reliability.
- Rapid charging makes your portable devices more user-friendly.

## 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		32.0mAh
Rated Capacity		30.0mAh
Dimensions*	Diameter(Max.)	4.7mm
	Height(Max.)	25.0mm
Weight*		Approx. 1.0g
Operating Temperature	Charge	0°C to +60°C
	Discharge	-20°C to +60°C
Maximum continuous discharging current		60.0mA(2C)
Maximum charging current		90.0mA(3C)
Certifications		IEC62133, UL1642

\* Without tabs.

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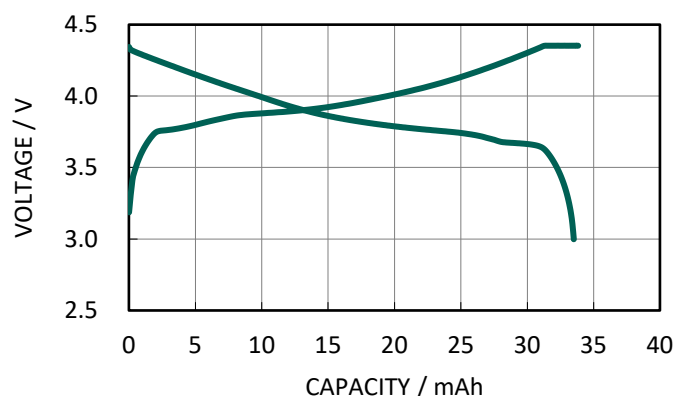
<https://industry.panasonic.eu/products/energy-building/batteries/battery-cells/secondary-batteries-rechargeable-batteries/lithium-ion-pin-type-batteries>

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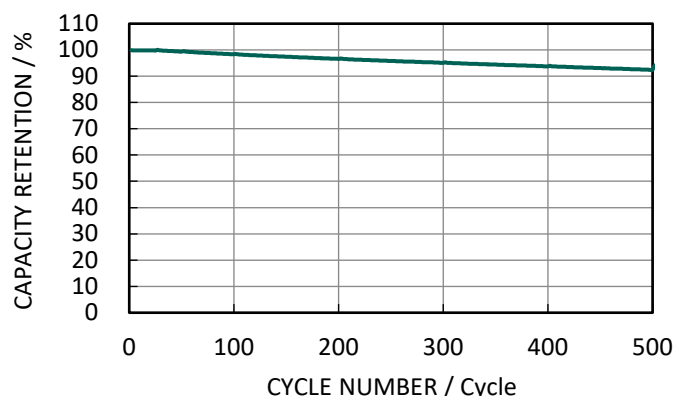
## Characteristics

### Charge and Discharge Characteristics



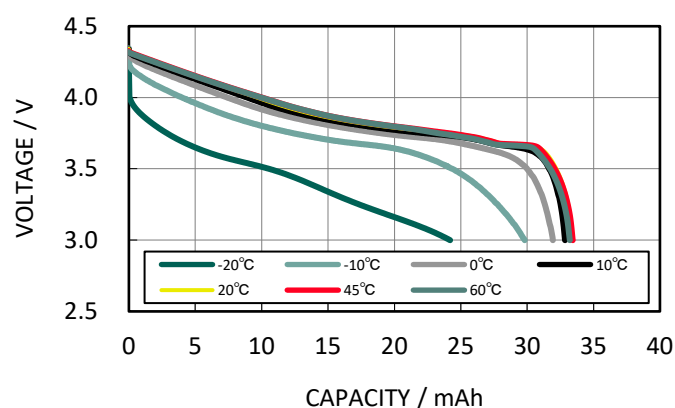
Charge Condition: CC/CV 30.0mA(1.0C) - 4.35V, 1.5mA(0.05C) cut-off at 20°C  
Discharge Condition: CC, 6.0mA(0.2C) - 3.0V cut-off at 20°C

### Cycle Life Characteristics



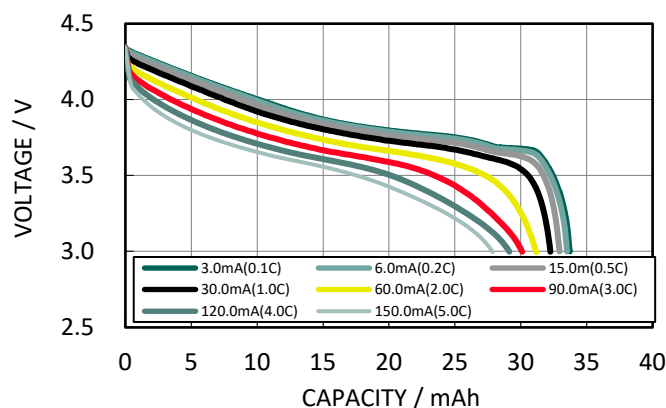
Charge Condition: CC/CV 30.0mA(1.0C) - 4.35V, 1.5mA(0.05C) cut-off at 20°C  
Discharge Condition: CC, 30.0mA(1.0C) - 3.0V cut-off at 20°C

### Discharge Characteristics by Temperature



Charge Condition: CC/CV 30.0mA(1.0C) - 4.35V, 1.5mA(0.05C) cut-off at 20°C  
Discharge Condition: CC, 6.0mA(0.2C) - 3.0V cut-off at 20°C

### Discharge Characteristics by Rate of Discharge



Charge Condition: CC/CV 30.0mA(1.0C) - 4.35V, 1.5mA(0.05C) cut-off at 20°C  
Discharge Condition: CC, 3.0V cut-off at 20°C

## 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 out-put connection short circuit.

## Panasonic Energy Co., Ltd.

<https://industry.panasonic.eu/products/energy-building/batteries/battery-cells/secondary-batteries-rechargeable-batteries/lithium-ion-pin-type-batteries>

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