Applications: wristband devices, fitness trackers, smart glasses, stylus pens, wireless headphones, hearing aids, industrial IoT applications, etc.

Miniature batteries have become a key component of today’s common mobile wearable devices. For these innovative product ideas to work in practice, their Lithium-ion cells have to be as small as possible and still deliver high energy density, good cycle stability and a long lifespan.

Panasonic is the most diversified battery producer worldwide, with more than 85 years of experience producing high-quality batteries.

Our Pin-type batteries are among the smallest cylindrical Lithium-ion batteries on the market and especially designed for wearables. With diameters of only 3.65 to 4.7mm, the small yet powerful solution also delivers compelling charging performance: after only 20 minutes, most Pin-type models are already 80% charged.*
For more technical information, please use this email: E-mail: battery-solutions@eu.panasonic.com

Specifications

**CG-320A**
*(in mass production)*

- Diameter (mm): 3.65
- Height (mm): 20.0
- Approximate weight (g) without tabs: 0.5
- Nominal voltage (V): 3.8
- Typical capacity (mAh): 15.0
- Maximum charging voltage (V): 4.35
- Maximum charging current (mA): 11.2 (0.75C)

**CG-425A**
*(in mass production)*

- Diameter (mm): 4.7
- Height (mm): 25.0
- Approximate weight (g) without tabs: 1.0
- Nominal voltage (V): 3.8
- Typical capacity (mAh): 32.0
- Maximum charging voltage (V): 4.35
- Maximum charging current (mA): 90.0 (3C)

**CG-435A**
*(under consideration)*

- Diameter (mm): 4.7
- Height (mm): 35.0
- Approximate weight (g) without tabs: 1.5
- Nominal voltage (V): 3.8
- Typical capacity (mAh): 52.0
- Maximum charging voltage (V): 4.35
- Maximum charging current (mA): 144.0 (3C)

* CG-320A will be 75% charged after 60 minutes, CG-425A & CG-435A will be 100% charged after 60 minutes.

Battery performance and cycle life are strongly affected by how the batteries are used. In order to maximise battery safety, please consult Panasonic when determining charge/discharge specs, warning label contents and design. The data in this document are for descriptive purposes only and are not intended to make or imply any guarantee or warranty.

**TERMINAL TYPES**

All Pin-type models are available with the following connectors:

- **E2**: Through-hole type
- **M2**: Surface mount type

**FEATURES OF CG-320A**

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<th>Feature</th>
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<td>Safety</td>
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*CG-320A will be 75% charged after 60 minutes, CG-425A & CG-435A will be 100% charged after 60 minutes.*