



FU-PL-ER34615 • Lithium-thionyl chloride battery



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1. Key features

- High and stable operating voltage.
- Low self discharge rate (less than 1% after 1 year of storage at 25°C).
- Long storage life.
- Stainless steel container (with low magnet).
- Widely operating temperature range.
- Hermetic glass-to-metal sealing.
- Non-flammable electrolyte.

2. Main applications

- IoT.
- Sensor.
- R&D instrument.
- Automotive telematics.
- Military equipment.
- Utility meters AMR&AMI.
- Alarms and security systems.
- Storage and tracking devices.

3. Advantages

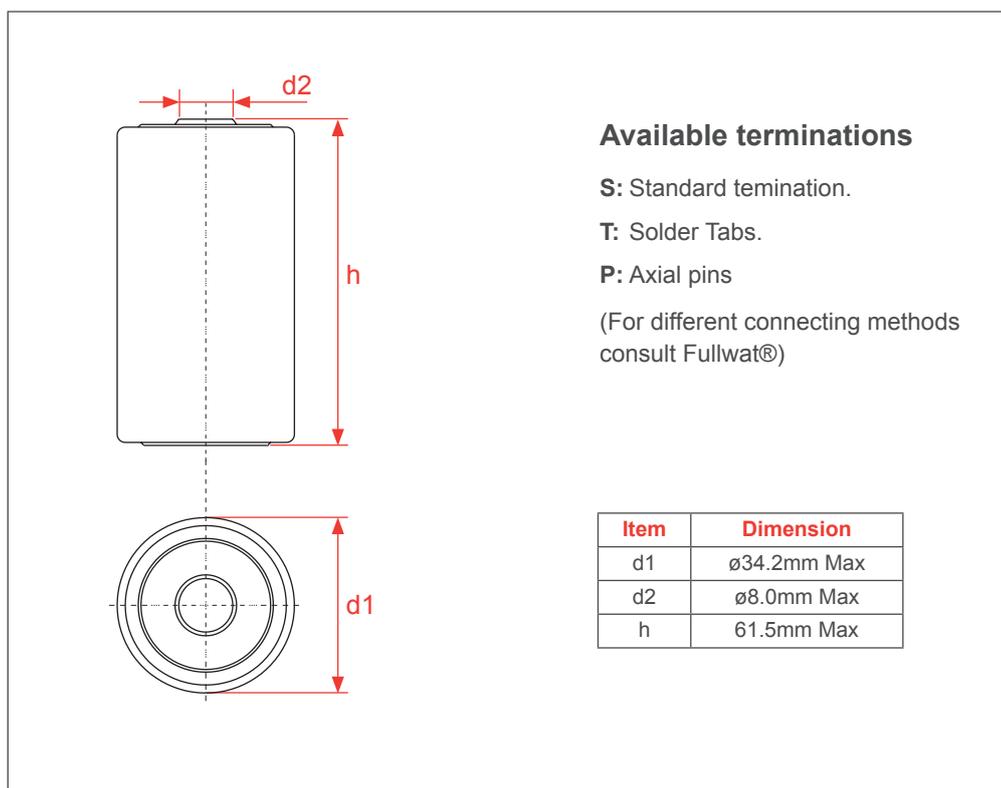
- High energy density over 620wh/kg (highest among all the chemical batteries).
- Open circuit voltage $\geq 3.65V$, and operating voltage ranging from 3.3-3.6V.
- Wide operating temperature range: $-55^{\circ}C \sim +85^{\circ}C$.
- Long storage life over 10 years (under normal room temperature).
- Suitable to operate under long-term tiny current with stable voltage.

4. Electrical characteristics

| | |
|---|----------------------------------|
| Nominal capacity (3mA~2V) The discharge capacity of battery depends on the environment temperature and the terminated voltage of the battery. | 19.0Ah |
| Nominal voltage | 3.6V |
| Maximum continuous current | 150mA |
| Max. Pulse capability Under temperature of $23 \pm 2^{\circ}C$, the battery starts to discharge with 10 μ A base current. The battery releases one pulse 300mA/0.1secs every 2 minutes during its discharging and the battery voltage shall not be less than 2.7V. The voltage value depends on pulse characteristics, temperature and the usage of the batteries. | 300mA |
| Weight | 105g |
| Operating temperature | $-55^{\circ}C \sim +85^{\circ}C$ |

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5. Dimensions



4. Warning

- Do not expose the battery to open flame, inflammable and explosive articles.
- Do not recharge, short-circuit, disassemble, incinerate the battery or heat the battery to more than 100°C.
- Do not use the battery beyond the permitted temperature range.

5. Warranty

The warranty is specified in our warranties section of *Terms of Sales*. If the product is to be stored for more than three months it is necessary to perform the appropriate maintenance to ensure the good condition of the batteries. Consult our annex to the *Terms of Sales* on the recommended maintenance.

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