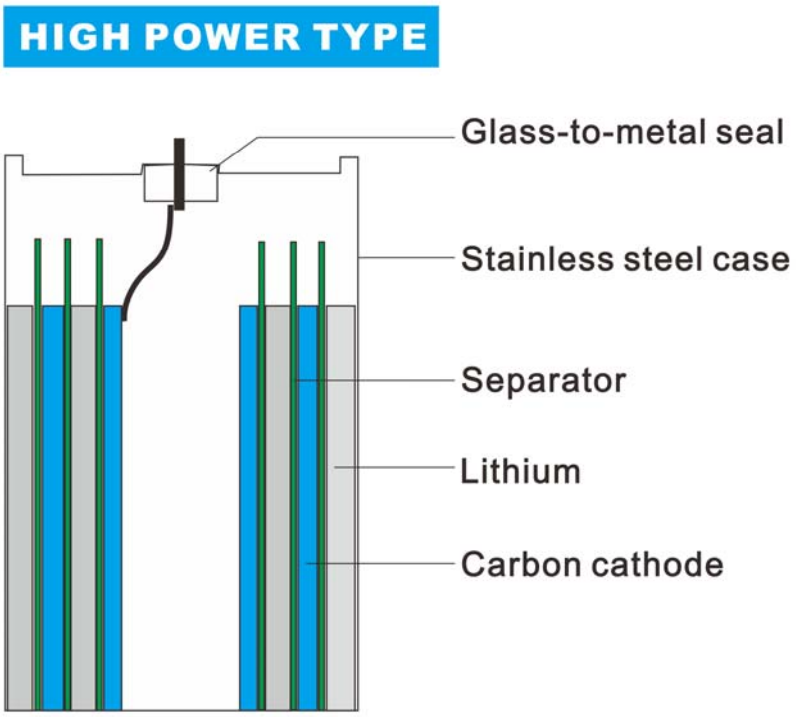
LITHIUM / THIONYL CHLORIDE
High Power Type

ER17335M

BRIEF SPECIFICATION

Model: ER17335M
Spirally Wound Type
Nominal Voltage: 3.6V
Nominal Capacity: 1.7Ah
Stainless steel container with PVC wrap
Stainless steel positive cap
ISO9001 Certified



Battery Structure

STANDARD SPECIFICATION

1. SUBJECT

This specification presents typical and guaranteed ex-work values of the Lithium / Thionyl Chloride Cylindrical battery of Model ER17335M.

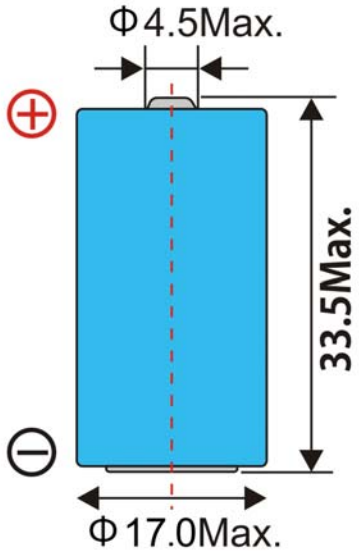
Lithium / Thionyl Cylindrical battery (Li-Thionyl) is used for the active cathode material, and high voltage, high activity lithium metal for the anode material.

2. GENERAL SPECIFICATION

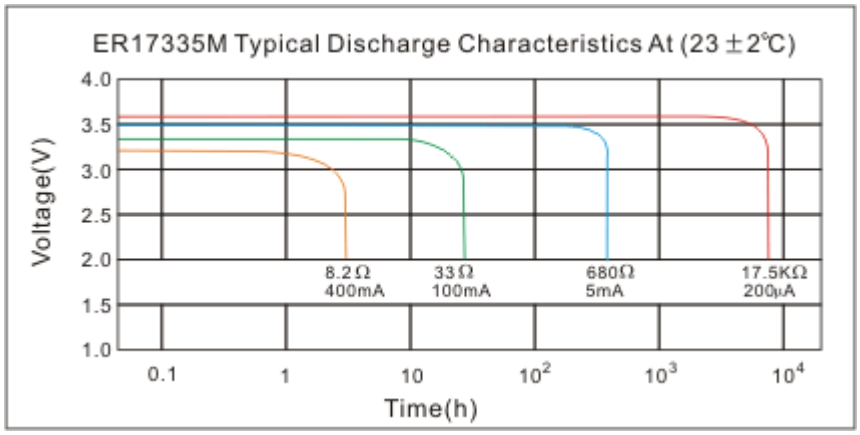
(Typical values relative to cells stored for one year or less at + 30℃ max.)

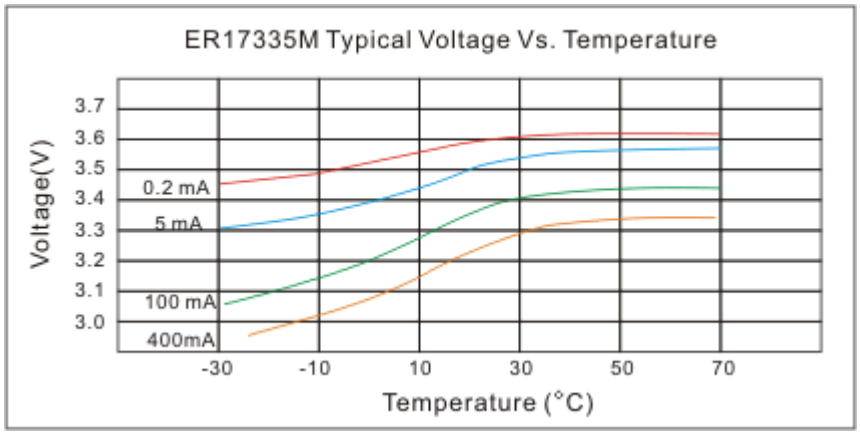
NO.	Item	Specification
2.1	Model	ER17335M
2.2	Nominal Voltage	3.6V
2.3	Nominal Capacity	1.7Ah
2.4	Maximum discharge current	500mAh
2.5	Maximum pulse discharge current	1000mAh
2.6	Operational temperature range	-55℃-+85℃
2.7	Dimension	Diameter:17.0mm Height:33.5mm
2.8	Weight	19g

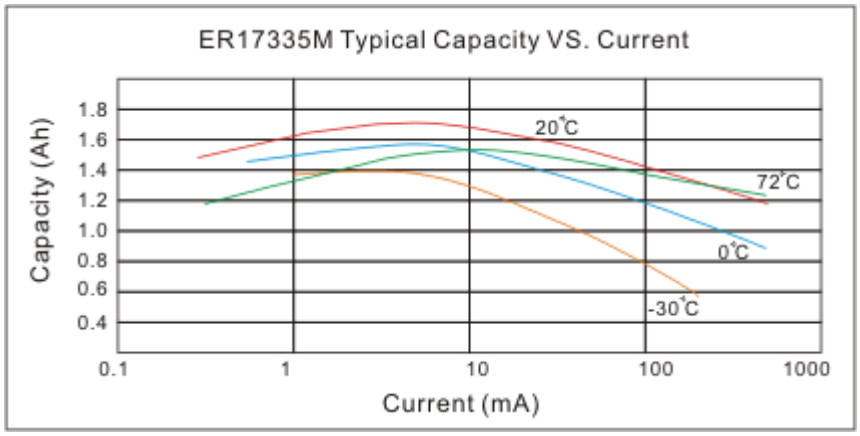
3. BATTERY SHAPE AND DIMENSION



4. ELECTRICAL CHARACTERISTICS







5. FEATURES AND APPLICATIONS

- Suited for high current discharge, both continuous and pulse current
- Spiral-type
- Temperature range from –55°C to +85 °C.

Note: Any representations in this brochure concerning performance, are for informational purposes only and are not construed as warranties either expressed or implied, of future performance.

- Bobbin-type or flat cells.

Applications:

- Water meters
- Gas meters
- Kilowatt per-hour meters
- Electronic Packing meters
- PC real-time clocks
- Medical Equipment
- CMOS memory backup

6. PRECAUTIONS IN USING

- Use Nickel-plated iron or stainless steel for the terminals that contact the battery.
- Make sure that terminal contact pressure is 50g minimum, for a stable contact.
- Keep the battery and contact terminal surfaces clean and free from moisture and foreign matter.
- Before inserting the battery, check the battery contact terminals to make sure they are normal, not bent or damaged. (Bent terminals may not make good contact with the battery or may cause it to short circuit.)
- When the batteries are piled up in a disorderly way, their positive and negative terminals may short-circuit, consuming some batteries while charging others, causing them to explode.
- Lithium batteries that are almost exhausted can output a voltage that is almost the same as that of a new battery: Please does not judge a battery only with a Voltmeter. Avoid using a mixture of old and new batteries; replace all batteries in a set with new one.
- Lithium batteries require a period of time to reach their normal voltage again after even a slight short circuit. Therefore, should the battery is short-circuited, wait an adequate long time for batteries to recover before measuring their electrical characteristics.
- Use a high impedance (1M or higher) voltmeter to measure battery voltage.
- Battery characteristics vary with type and grade, even when batteries are the same size and shape. When replacing batteries with new ones, be sure to carefully check the symbols and numbers on them.

7. STORAGE AND MOUNT

The battery should be preferably stored in dry and cool conditions. Storage at high temperature must be avoided to preserve the battery life time.

8. SAFETY

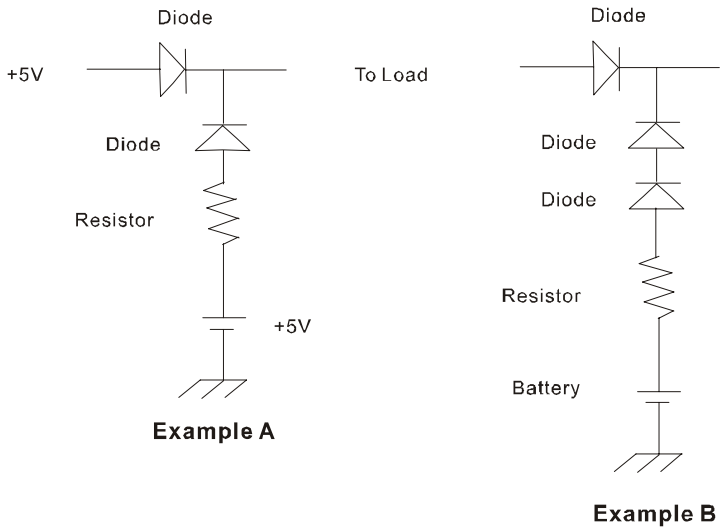
Battery Handing Precautions to Ensure Complete Safety

Lithium batteries contain inflammable materials, such as lithium and organic solvents. Improper battery handing, particularly during transit and storage, may cause heating, explosions and fires.

Please strictly observe the precautions below in handing lithium batteries.

WARNING!

1. DO NOT recharge, short-circuit, disassemble, deform, heat or place the battery near a direct flame. This battery contains flammable materials such as lithium and organic solvent and performing any of the above actions could cause it to ignite explode or become damaged.
2. Keep this battery out of the reach of children. If it is swallowed, contact a physician immediately.
3. When storing the battery or throwing it away, be sure to cover it with tape. If the battery comes into contact with other metal objects, it could ignite or become damaged.
4. DO NOT over-discharge the battery. In case the battery is over-discharged when connected with exterior power source or connected with other batteries in series, explosion may occur.
5. While used for memory backup, the following circuit shall be applied:



Example A **Example B**

CAUTION!

Closely observe the following precautions. If the battery is used incorrectly, it could leak or become damaged, causing device trouble or injury.

1. Insert the battery with the "+" and "-" ends correctly oriented.
2. If the battery is used together with new batteries, do not use it with a different type of battery.
3. Do not apply solder directory to the battery.
4. Avoid storing the battery in direct sunlight, or in excessively hot and humid locations

*****Please consult EEMB for detailed safety instruction.**

Supplemental document includes:

1. Lithium /Thionyl Chloride Battery Users Manual
2. Lithium /Thionyl Chloride Battery Safety Handling Instruction (Additional Information)