

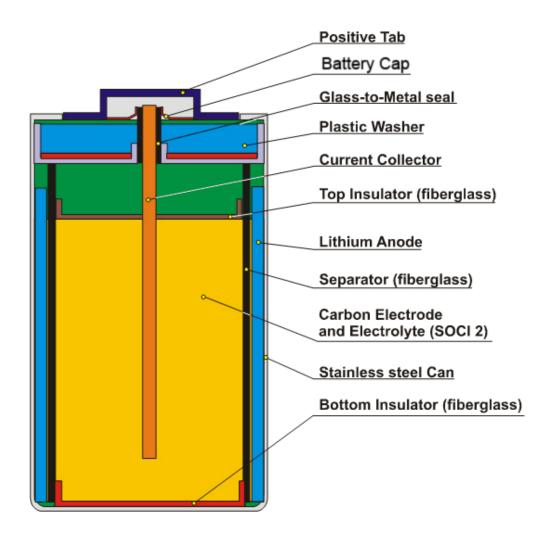
LITHIUM THIONYL CHLORIDE Battery High Temperature

ER341245S

BRIEF SPECIFICATION

Model: ER341245S Nominal Voltage: 3.6V Nominal Capacity: 25Ah Weight: About 220g Stainless steel container with PVC wrap Stainless steel positive cap ISO9001 Certified UL Certified MH20555 Manufacturer: EEMB Co., Ltd. Website: <u>http://eemb.com</u>





Bobbin Type

Battery Structure

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.



STANDARD SPECIFICATION

1. SUBJECT

This specification presents typical and guaranteed ex-work values of the Lithium Thionyl Chloride Cylindrical battery of Model ER341245S.

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. FEATURES AND APPLICATIONS

- > Excellent shelf life (10 years at room temperature).
- Low self-discharge (1 % or less per year).
- > Suited for long-term use with low current.
- > For operation at low current levels with long stands intermittent discharge with medium current level provided. The average is not below the active current level.

Applications:

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

3. GENERAL SPECIFICATION

(Typical values relative to cells stored for six months less at + 30°C max.)

3.1 Model:	ER341245S
3.2 Nominal Voltage:	3.6 Volts
3.3 Open-circuit voltage(+25℃)	3.65 V
3.4 Capacity: (Discharge capacity with cut-off voltage of 2.0 V, 200mA at +15	50℃) 25Ah
3.5 Maximum discharge current: (reach 100% of nominal capacity at +105 °	C) 400mA
3.6 Maximum pulse current	800mA
(At +150 $^\circ\mathrm{C}$, based on 20µA, battery with 50% discharge depth of 20mA is discharged	
with 800mA current, and 0.1 seconds / 2 minute pulse. If the battery voltage is not	
less than 2.7V, the voltage value will change with the pulse characteristics, temperature	
and the change of the battery before use.)	
3.6 Operational temperature range:	-20°C ~ +150°C
3.7 Nominal Weight:	About 220g
3.8 Maximum dimension(unit: mm) 33	3.2(Diameter)*124.5(Height)

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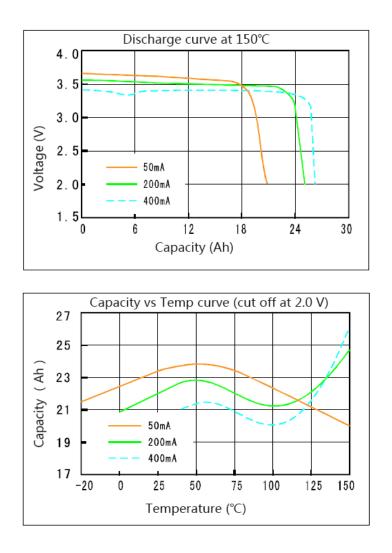
4. STORAGE

The battery should be stored in a clean, dry, cool conditions (preferably at +20 $^{\circ}$ C or lower temperature environment, the maximum does not exceed +30 $^{\circ}$ C). Long storage life (2% self-discharge rate at 25 $^{\circ}$ C)

5. WORKING TEMPERATURE



6. ELECTRICAL CHARACTERISTICS



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7. VISUAL ASPECT

- The cell must not show any trace of
- > Dents
- Bulging
- Leakage
- Corrosion

8. PRECAUTIONS IN USING

- > To use these batteries efficiently, strictly observe the following precautions.
- > 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.

9. STORAGE AND MOUNT

The battery should be preferably stored in dry and cool conditions.

10. 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, and immerse it in water or heat it at above +160 ° C; otherwise it may cause an explosion, burning and hazardous substance leakage. Failure battery can not be discarded randomly and it is suggested to bury it deep underground. 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.

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 directly to the battery.
- 4. Avoid storing the battery in direct sunlight, or in excessively hot and humid locations.