BONREX

Lithium Thionyl Chloride Battery Specification Bobbin Type

Model	ER26500-LD	
Capacity	9000mAh	

Prepared	Checked	Approved	

Customer:

Confirmation:			
Signature	Checked	Approved	

Bonrex



Battery Structure



BONREX

1. Overview

Description below is for full sealed lithium thionyl chloride cylindrical battery provided by Bonrex (hereinafter referred to battery).

2. Structure and appearance:

- 2.1 Structure:Lithium thionyl chloride electrolyte and cathode, the activated carbon is anode carrier, diaphragm, stainless steel (shell) and glass-insulation cover group
- 2.2 Appearance:Visual ER26500 battery shall not have depression, bumps, rust or leakage. Mark must be clear.

No.	Item	Characteristics		
3.1	Model	ER26500-LD		
3.2	Nominal voltage	3.6V		
	9Ah (Conditions:870 Ω /4mA,+20°C, end voltage 2.0			
3.3	Nominal capacity <u>Notes:</u> Battery capacity will be different according to the d			
		current.environment temp. and end voltage		
3.4	Max.constant current	180mA		
		320mA[discharge according to pulse characteristics		
3.5	Max.pulse current	frequency,continue time) temperature,battery state(storage before		
		use)and it is different as the lowest voltage accepted by device]		
3.6	Max.dimension	Φ26.2mm×50mm(Max)		
3.7	Operating temp.	-55℃~+85℃		
3.8	Approx.weight	55g		
3.9	Battery volume	27.6cm ³		

3. Electrical characteristics:

BONREX

4. Technical index and safety characteristics:

Technical index:

NO.	Item	Test condition	Index	
	OCV	Voltage meter	-40±2°C	3.64 ~ 3.70V
4.1.1			23±2℃	3.64 ~ 3.70V
			85±2℃	3.64 ~ 3.74V
4.1.2	Load voltage	56Ω@5S	-40±2°C	≥2.9V
			23±2℃	≥3.2V
			85±2℃	≥3.4V
4.1.3	Standard discharge	870Ω,end voltage 2V	23±2℃	9000mAh
	Quick discharge	56Ω,end voltage 2V	23±2℃	≥6000mAh

(NOTES: The tested battery position should be vertical and positive side should be up situation.)

5. OQC inspection

Before shipment,100% inspection to ER26500 battery open circuit voltage (OCV) and load voltage, appearance and size. Sampling inspection to battery capacity..

- 6. ER26500 battery finished products inspection standard.
 - 6.1 Appearance



1. The steel case without ballooning at the bottom of cell, battery (especially pay

attention to the positive core and the sealing) without leakage phenomenon.

2.At the bottom of the steel case without any dimple phenomenon.

3.At the bottom of the steel case, no rust, welding scar.

4. Product identification is clear, no ghosting or blur.

6.2 Dimension

Use vernier caliper (accuracy of 0.02 mm) measuring battery dimension. The maximum diameter is 26.2 mm , the maximum height is 50 mm



ФА	ФВ	ФС	D	E	F
4.4Max	26.2Max	18Max	0.5±0.5	1.5±0.2	50Max

7. Discharge Curve







8. Memory Backup Circuit Design Suggestion

A primary lithium battery is not rechargeable, when used for memory backup in combination with another power source; current may flow into the battery from the other source. A protection diode and resistor into the circuit is needed to avoid battery charging or over discharging. Select a silicon diode or a diode with minimum leakage current, and design the circuit so that the amount of charging due to leakage current will not exceed 2% of the nominalbattery capacity over the total period of use.While used for memory backup, the following circuit shall be applied:



9.Packing

- 1.Plastic plate:50pcs/plate
- 2.4 plates/carton
- 3.Carton dimension:280*235*360
- 4.G.W.:15KGS/carton

10.WARNING

Safety

•Do not remove the cells from their original packing before use.

- Do not store the cells in bulk in order to avoid
- accidental short circuit.
- Do not disassemble.
- Do not recharge.
- Do not solder directly in the cell.
- Do not mix new and used cells or cells from different



origins.

• Respect the polarities of the cell. Sentences on cell Fire, explosion, and severe burn hazard. Do not

recharge, crush, disassemble, heat above 212°F (100°C) or incinerate. Keep battery out of reach of children and in original package until ready to use. Dispose of used batteries promptly.

ER26500-LD A912650-5 (PHR-2P)

