

TENERGY CORPORATION

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TENERGY CORPORATION

PRIMARY LITHIUM BATTERY SPECIFICATION

DATE: April 22th, 2008

Model No.: TEN-ER341270

Primary lithium DD size battery cell

These specifications apply to the TENERGY CORPROATION Primary lithium-thionly chloride Battery of the above mentioned model.



SHENZHEN RYDER ELECTRONICS CO., LTD

Drw	
Chk	
App	

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Primary lithium batteries ER341270

3.6V Primary lithium-thionyl chloride
(Li-SOCl₂) Energy type
DD-size bobbin cell

For low drain / long time applications requesting superior voltage response in -55°C~+85°C environments.

Cell size references (DD)

Alternative models	DD
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Electrical characteristics

(typical values relative to cells stored for one year or less at +30°C max.)

Nominal capacity

38Ah

(at 10mA +20°C 2.0V cut off. The capacity restored by the cell varies according to current drain, temperature and cut off).

Open circuit voltage (at +20°C)

3.66V

Nominal voltage (at 10mA +20°C)

3.6V

Pulse capability: Typically up to 400 mA (400 mA/0.1 second pulses drained every 2 mn at +20°C from undischarged cells with 10 µA base current, yield voltage readings above 3.0V. The readings may vary according to the pulse characteristics, the temperature, and the cell's previous history. Fitting the cell with a capacitor may be recommended in severe conditions.

Max. Continuous current

200mA

Max. Pulse current

400mA

Storage (recommended)
(for more severe conditions)

+30°C max

Operating temperature range
(Operation above ambient T may lead to reduced capacity and lower voltage readings at the beginning of pulses)

-55°C / +85°C

Physical characteristics

Diameter (max)

34.2mm(1.41 in)

Height (max)

127mm(5 in)

Typical weight

190g(6.22 oz)

Available termination suffix

radial tabs, radial pins, axial leads, flying leads

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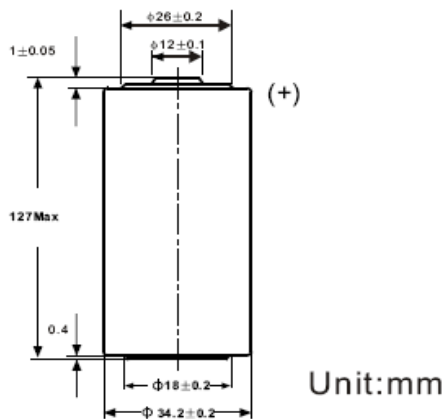
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LITHIUM BATTERY

ER341270



Key features

- ▶ High and stable operating voltage
- ▶ Superior drain capability
- ▶ Low self-discharge rate (less than 1% after 1 year of storage at +20°C)
- ▶ Optional stainless steel container for low magnetic and nickel plated steel container for more safe design
- ▶ Hermetic glass-to-metal sealing
- ▶ Notch technology for safety vent is recommended
- ▶ Non-flammable electrolyte

Main applications

- ▶ Radiocommunication and other military applications
- ▶ Alarms and security systems
- ▶ Beacons and emergency location transmitters
- ▶ GPS
- ▶ Metering systems
- ▶ Sonobuoys
- ▶ LED lighting applications
- ▶ Others

Storage

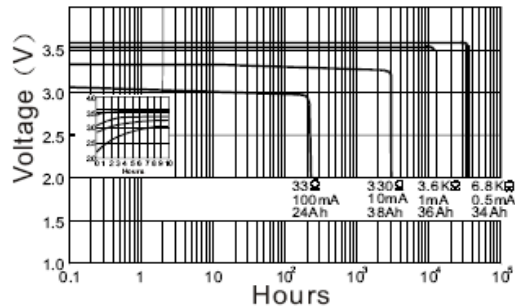
- ▶ The storage area should be clean, cool (not exceeding +30°C), dry and ventilated.

Warning

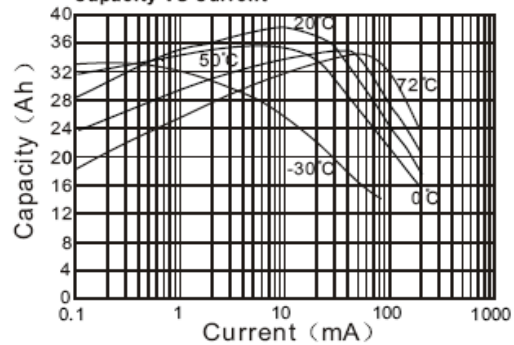
- ▶ Do not use if the battery casing was mangled.
- ▶ Please discharge the battery few minutes with 100mA, if the battery voltage is lower than your need or consult us.
- ▶ Don't use different models of battery in series.
- ▶ Soldering the tag should be finished in few seconds.
- ▶ Do not try to recharge.

Characteristic curves

Discharge performance (25°C)



Capacity VS Current



Voltage VS Temperature

