



Product Data

Model R15703 Li-ion D Cell

Electrical Characteristics

Nominal Voltage	3.70V
Rated Capacity	5.2Ah

Physical Characteristics

Height	2.374 ± .008 in (60.3 ±0.2mm)
Diameter	1.335 ± .004 in (33.9 ±0.1mm)
Weight (nominal)	136g

Operating Characteristics

Discharge Temperature Range	-40°F to +158°F (-40°C to +70°C)
Max. Continuous Discharge Current	8.0A
End (of discharge) Voltage	2.5V
Charging Method	Current limited and voltage limited
Charge Temperature Range	32°F to +122°F (0°C to +50°C)
Max. Recommended Charge Current	1.7A
End (of charge) Voltage	4.2V ±0.05V

Safety and Abuse Testing

This product has undergone extensive safety and abuse testing to ensure rigorous standards of safety and security for the user.

Continuous Charge	Short Circuit
Shock	Forced Discharge
Vibration	Overcharge
High Temperature Storage	Internal Short-circuit
Thermal Shock	High Rate Charge
Altitude Simulation	Free Fall

Transportation Testing

The R15703 has been tested and meets the requirements of UN Recommendations on the Transport of Dangerous Goods – Manual of Tests and Criteria, Fourth Revised Edition, Section 38.3.

This model is classified as Class 9, Dangerous Goods for transportation purposes per the UN Recommendations on the Transport of Dangerous Goods – Model Regulations, Thirteenth Revised Edition. This model must be packaged, labeled, and documented according to country and international regulations for transportation.

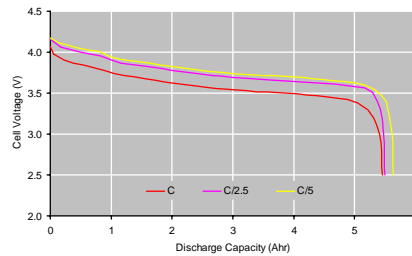
R15703 Li-ion Cell

Cell Performance Characteristics

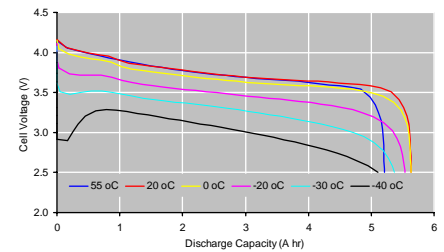
Product Benefits:

- **High energy density**
up to three times that of NiCd cells
- **High running voltage**
replaces three NiCd or NiMH cells
- **Excellent low temperature performance**
will operate down to -40°C and below
- **Simple charging methods**
combination of constant current and constant voltage
- **No memory effects**
unlike NiCd cells no need for conditioning cycles after shallow discharges
- **Proven cycle life**
extended cycle life throughout operational environment
- **Environmentally Friendly**
contains no cadmium or lead

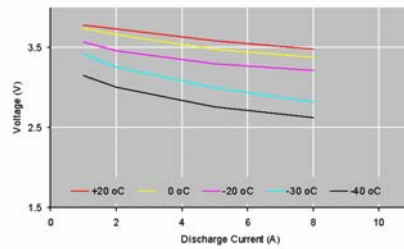
Discharge Capacity vs Current
Drain Discharge at +20°C



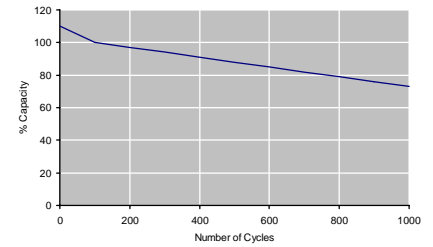
Discharge Capacity vs Temperature
Discharge at C/2.5 rate



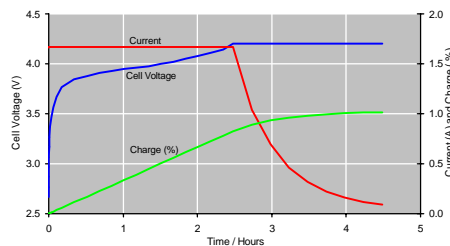
Voltage vs Current & Temperature
Avg. discharge voltage



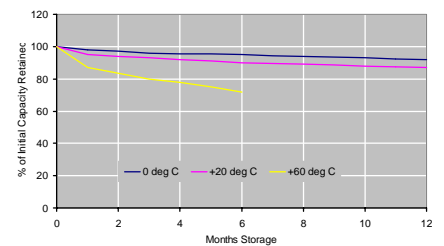
Cycle Life* Discharge at C/2.5 rate
at +20°C charge at C/3 rate



Charging Method CCCV Charging



Charge Retention Discharge at C/2.5 rate



* Cycle life will vary with charge rate, discharge rate, depth of discharge and operating temperature, consult Electrochem for details.