

LITHIUM/MANGANESE DIOXIDE BATTERY



Size: CR123A

KEY FEATURES

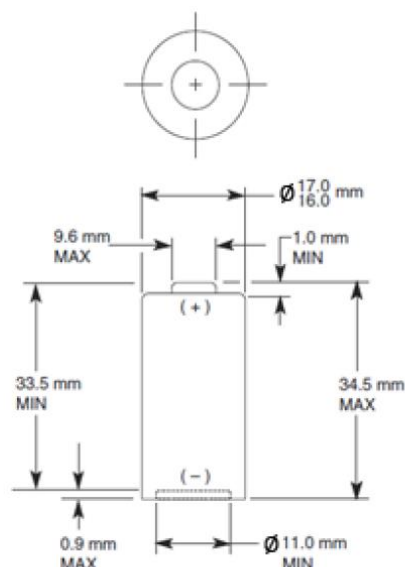
- Industry Highest Cell Capacity & High Energy
- High voltage response, stable during most of the lifetime of the application
- Reliable Performance
- Wide operating temperature range (-20°C/ + 75°C)
- Low self-discharge with long operating life (<1% after 1 year of storage at + 20 °C)
- Excellent resistance to corrosion
- Designed to meet all major quality, safety, and environment standards:
 - Safety: IEC 60086-4
 - Transport: UN 38.3
 - RoHS and REACH compliance
 - Quality: ISO 9001, Duracell World Class Continuous Program

TYPICAL APPLICATIONS

- Security Devices (sensors, monitoring cameras)
- Smoke Detectors
- Wireless Sensors
- Door Locks
- High Intensity Flashlights
- Laser Sights

PROCELL®
PROFESSIONAL BATTERIES

Procell Professional batteries
Berkshire Corporate Park
Phone: 1-800-544-5454 (Toll-free)
www.procell.com



Dimensions shown are IEC/ANSI standards

ELECTRICAL CHARACTERISTICS

Nominal capacity (100 Ohm Cont, 2 V cut-off)	1600 mAh
Typical Voltage (at +20°C)	3.2-3.3 V
Standard Continuous Discharge Current	20 mA
Maximum Continuous Discharge Current	60 mA
Maximum Abnormal Charge Current	25 mA
Nominal Energy	4.35 Wh
AC Impedance @ 1kHz	350 mOhm

PHYSICAL CHARACTERISTICS

Typical weight	17.0g (0.60 oz.)
Li metal content	approx. 0.53 g

OPERATING & STORAGE CONDITIONS

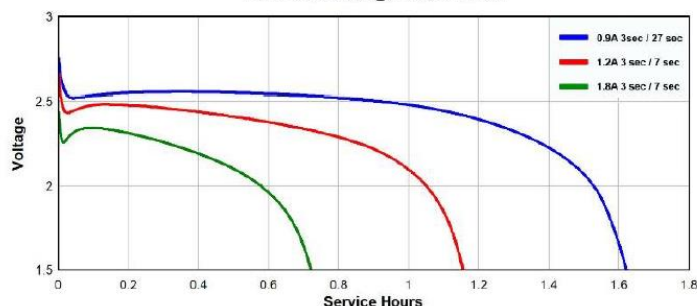
Operating temperature range	-20°C to 75°C (-4°F to 167°F)
Recommended Storage	Storage area should be clean, cool (preferably not exceeding +30°C), dry and ventilated
	5°C to 30°C (41°F to 86°F)

Delivered capacity is dependent on the applied load, operating temperature and cut-off voltage. Please refer to the charts and discharge data shown for examples of the energy/service life that the battery will provide for various load conditions.

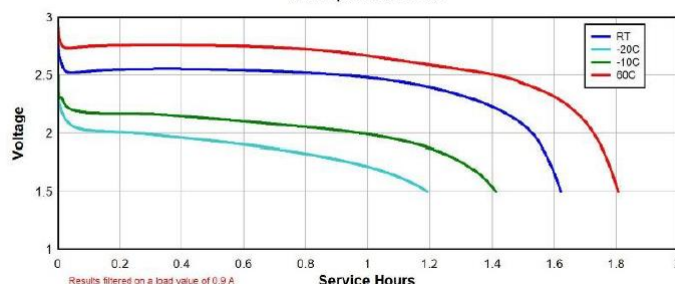
This data is subject to change. Performance information is typical. Contact Duracell for the latest information.

TYPICAL PERFORMANCE

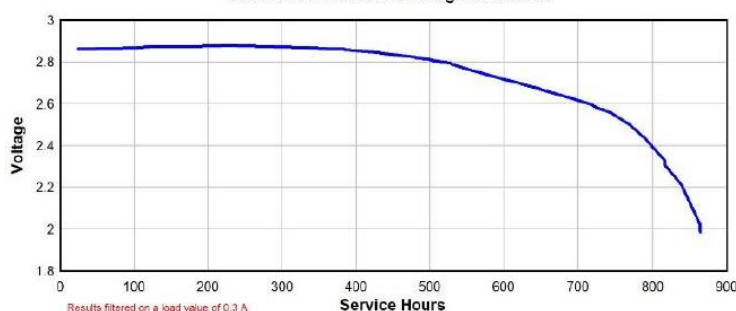
Pulse Discharge @ Multiple Loads



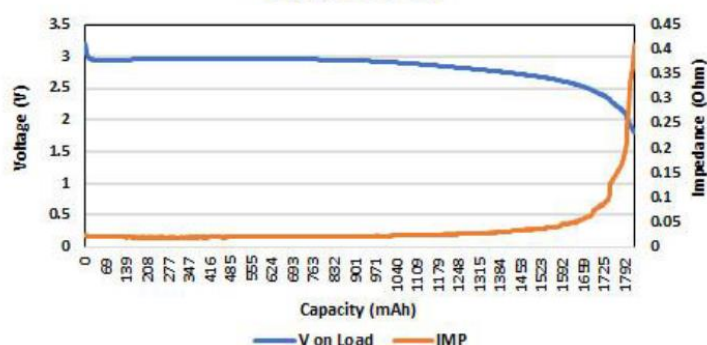
Temperature Performance
0.9 Amp 3s/27s to 1.5V



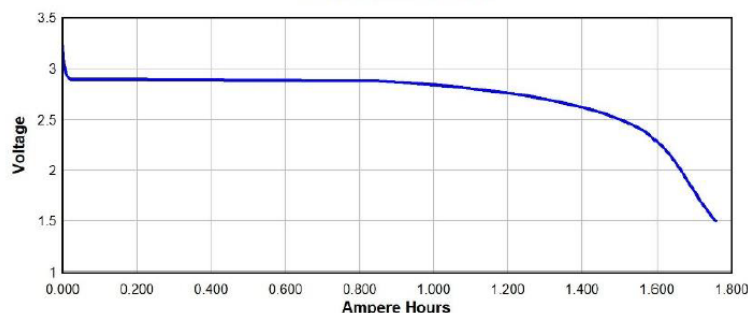
Low Load Pulse Test
300mA Pulse with 2mA Background to 1.8V



Pulse Discharge Impedance
40mA 1s/14s to 1.8V



Rated Capacity
100 Ohm Continuous to 2V



60086-4 © IEC:2007 Edition 3.0

Test	Test designation	Observation
A	Altitude	Pass
B	Thermal cycling	Pass
C	Vibration	Pass
D	Shock	Pass
E	External short circuit	Pass
F	Impact	Pass
G	Crush	Pass
H	Forced discharge	Pass
I	Abnormal charging	Pass
J	Free fall	Pass
K	Thermal Abuse	Pass

Warning

- Fire, explosion and burn hazard
- Do not recharge, short circuit, crush, disassemble heat above 100°C (212°F), incinerate or expose contents to water

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