



MODEL CR18505
Lithium Manganese Dioxide
(Li-MnO₂) Battery

(International size reference: A, CR18505)

ELECTRICAL CHARACTERISTICS

(typical values for cells stored for one year or less, less at 30°C)

■ **Nominal capacity** **2,800 mAh**
 (at 10.0 mA, +23°C, 2.0V cut off. The capacity restored by the cell varies according to current drain, temperature and cut off voltage.)

■ **Nominal voltage** **3.0 V**

■ **Maximum recommended continuous current** **1,500 mA**
 (Higher currents possible. Consult OmniCel.)

■ **Pulse capability:** varies according to pulse characteristics (frequency, duration), temperature, cell history (storage conditions prior to usage) and the application's acceptable minimum voltage. Consult OmniCel.

■ **Maximum pulse current capability** **3,000 mA**

■ **Storage** (recommended) **30°C max**
 (possible without leakage) **-55° / +120°C**

■ **Operating temperature range** **-40° / +85°C**
 (Operation at temperature different from ambient may lead to reduced capacity and lower voltage plateau readings.)

KEY FEATURES

- ✓ High and stable operating voltage
- ✓ Low self discharge rate (less than 2.5% after 1 year of storage at +20°C)
- ✓ Stainless steel container
- ✓ Hermetic glass-to-metal sealing
- ✓ Non-flammable electrolyte
- ✓ Compliant with IEC 86-4 safety standard and EN 50020 intrinsic safety
- ✓ Non restricted for transport
- UL Underwriters Laboratories (UL) Component Recognition (File Number MH 28717)

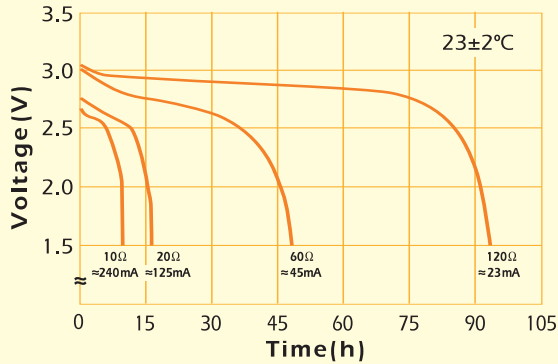
MAIN APPLICATIONS

- ✓ Utility metering
- ✓ Military electronics
- ✓ Alarms and security devices
- ✓ Memory back-up
- ✓ Tracking systems
- ✓ Automotive electronics
- ✓ Professional electronics ... etc.

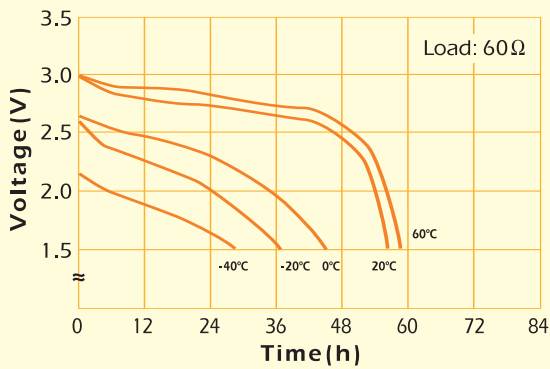
⚠ WARNING:

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

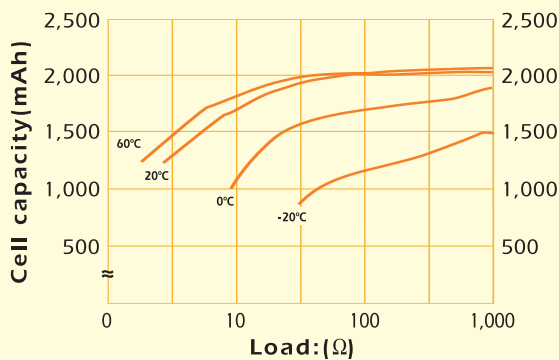
DISCHARGE CHARACTERISTICS



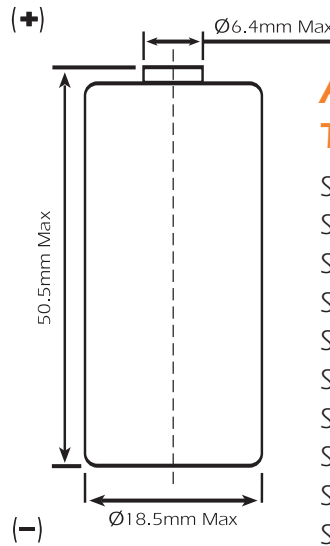
TEMPERATURE CHARACTERISTICS



LOAD-CAPACITY CHARACTERISTICS



CR18505



AVAILABLE TERMINATIONS

Suffix-/S	Standard
Suffix-/T	Solder Tabs
Suffix-/P	Axial Pins
Suffix-/2PT	Polarized Tabs
Suffix-/3TP	Polarized Tabs
Suffix-/3PT	Polarized Tabs
Suffix-/3PF	Polarized Tabs
Suffix-/3FP	Polarized Tabs
Suffix-/4PF	Polarized Tabs
Suffix-/W	Wire Leads

[View available terminations](#)

PHYSICAL CHARACTERISTICS

■ Diameter (max)	18.5 mm (0.728")
■ Height (max)	50.5 mm (1.988")
■ Typical weight	35 g (1.235 oz)

WARNING:

- Forbid short-circuit, charge between "+" and "-".
- Forbid over-discharge, fire and damage.
- Finish soldering in 5 seconds at 200° / 250°C.
- Take out the battery when discharged to cut-off voltage and correctly dispose.
- Do not recharge, short-circuit, disassemble.
- Do not inversely connect the (+), (-).