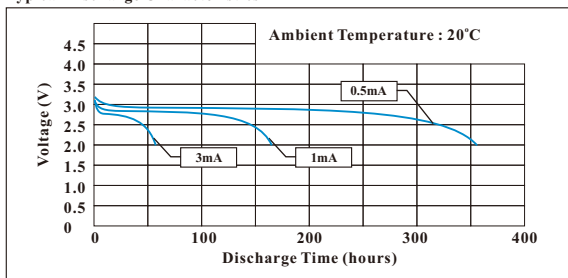


# LITHIUM PHOTO BATTERY

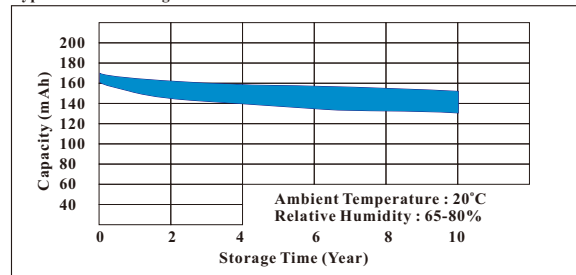
## SPECIFICATIONS

Model	: CR1/3N
Description	: Lithium manganese dioxide (Li/MnO <sub>2</sub> ) battery
Nominal Capacity	: 170mAh (Min. 160mAh) at 3mA continuous discharge (new cell, temp. 20°C)
Nominal Voltage	: $\geq 3.0V$ (open circuit voltage, no load)
Cut-Off Voltage	: 2.0V
Weight	: 3.2g
Max. Discharge Current	: 60mA continuous 140mA pulse (conditions apply)
Operating Temperature	: -30°C to 60°C (battery performance varies with temperature)
Storage Conditions	: -20°C to 45°C, RH 65±15% (within 3 months) 25±5°C, RH 50-70% (long term)
IQC Recommendations	: Other IQC standard must be mutually agreed. IQC Date : within 30 days after shipment of battery Outer Dimensions : with caliper (Sampling S-4 AQL 2.5) Appearance : visual (Sampling G-II AQL 2.5) Open Circuit Voltage : voltmeter (Sampling S-4 AQL 0.65) Capacity : 3mA continuous discharge at 20±5°C
Precautions	: Misuse or mishandling of battery may cause explosion, burning, or leaking. Do not recharge, over-discharge, short circuit, disassemble, direct soldering, put into fire, put into water, use inverse polarity, mix new and old battery. Do not use more than three cells in series. Contact us for technical advice if application/equipment needs more than 3 cells in series. Do not mix use different types (chemistry) batteries.

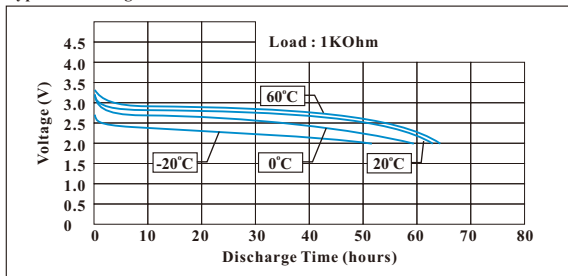
Typical Discharge Characteristics



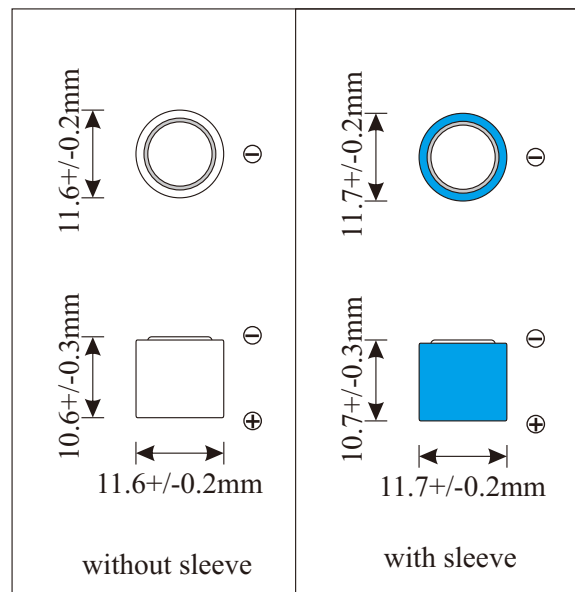
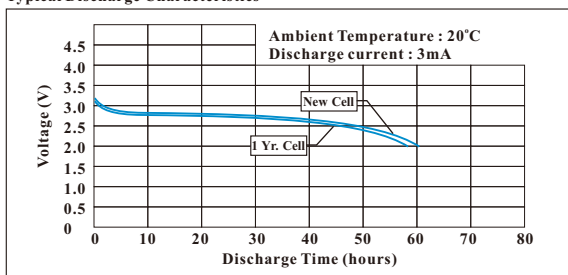
Typical Self Discharge Characteristics



Typical Discharge Characteristics



Typical Discharge Characteristics



Information is for reference only and is not construed as warranties either expressed or implied, of future performance. Performance varies with time, discharge and storage condition.. 1 year limited guarantee against manufacturing defects. Other problem caused by misuse, mishandling of cell, or malfunction of equipment, is not under the warranty.

Model : CR1/3N  
Version : 3.40

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**NFA01**

# LITHIUM MANGANESE DIOXIDE BATTERY

## PROPER USE AND HANDLING

This page is not intended to provide all the information that you will need to know to safely use the battery. Customer should employ appropriate cautions in order to obtain optimum performance and safety.

- |                     |   |
|---------------------|---|
| Handling and Safety | : Do not mix new and used batteries<br>Do not mix batteries of different sizes, brands and types.<br>Do not recharge the batteries<br>Do not reverse the polarity<br>Do not over-discharge the battery<br>Do not heat, incinerate or solder on the battery<br>Do not puncture, crush or dismantle the battery<br>Do not expose content to water<br>Keep battery away from children<br>Do not short circuit the battery. Control measures should be implemented throughout the workplace.<br>Batteries should be stored in original packaging or by similar means before installation or after removal.<br>Batteries should be handled by trained workers.<br>Avoid dropping of the battery. Dropped battery should be treated as a potential hot cell and must be segregated from the batch.<br>All inspection tools should be non-conductive.<br>Batteries should be inspected for physical damage. After checked, they should be returned to their storage packaging. |
| Storage             | : Store batteries in a cool, dry and well-ventilated area. Storage temperature should be within the specified range in the specification<br>Keep away from moisture, heat sources and open flames.<br>Keep batteries in original packaging.<br>Do not apply pressure that may deform the battery.<br>Appropriate fire extinguishing means and personal protective equipment should be available.  |
| Installation        | : Install only new batteries with the same size, type and date code.<br>Make sure the polarities is correct in installation.<br>Make sure the batteries is in physically good conditions  |
| Disposal            | : Dispose the batteries in accordance with local regulations<br>Secure terminals to prevent short-circuiting<br>Cut open the circuit for parallel connections<br>Package each battery in a manner that prevents shorting with the container or with other batteries<br>Package leaking batteries in a manner that contains the leak and use appropriate handling equipments such as gloves, safety glasses, respirator, sealable plastic bags.  |

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**Model : CR1/3N**  
**Version : 3.40**

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**NFA01**