

Primary Lithium Battery Li-MnO₂

Primary characteristics		
Parameter	Value	Unit
Nominal voltage	3.0	V
Rated capacity	1600	mAh

Scope

The purpose of this product specification is to provide technical information for the Lithium Manganese Battery Li-MnO₂ battery CR123A.

The test shall be conducted in strict accordance with the method specified in this specification.

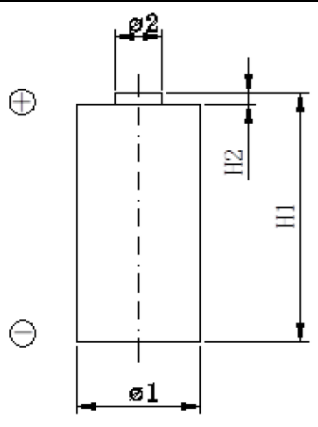
If you have any objection to the test items or test methods, please contact Akyga Battery.

Key Features

- Optimized battery structure,
- Long endurance,
- No passivation,
- UL, RoHS Certified

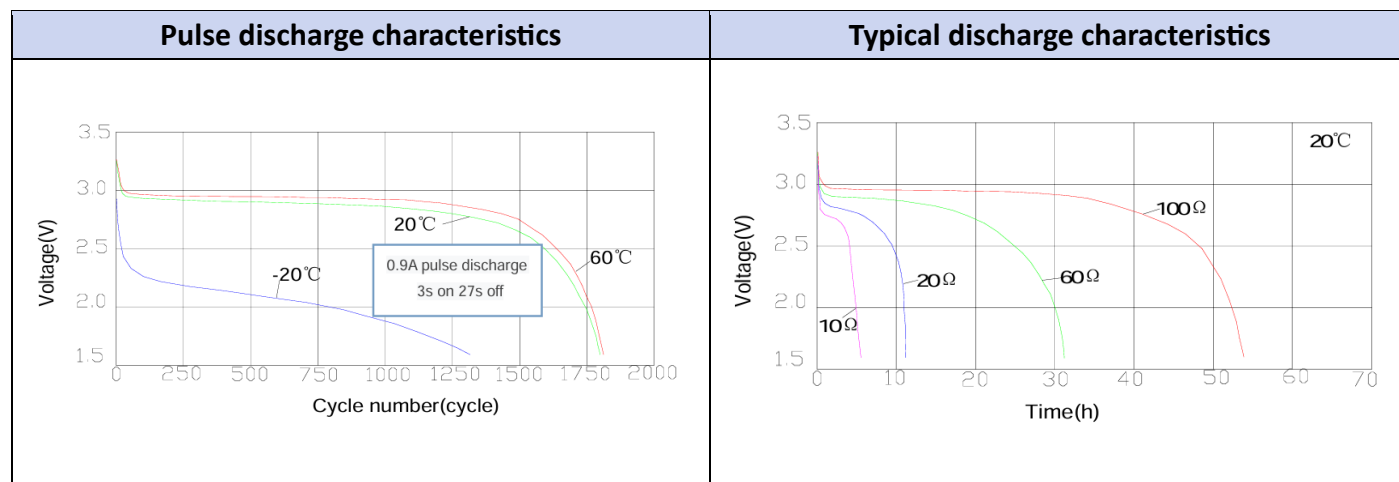
Main Applications

- Security system,
- Smart metering,
- RFID and tracking system,
- Wireless transmitting,
- Smart home devices,
- Military devices

Battery dimensions				
				
Dimension	H1	H2	Φ1	Φ2
[mm]	34.0±0.5	1.6±0.3	16.7±0.2	6.3±0.2

Specification table			
Parameter	Conditions	Value	Unit
Battery model	-	CR123A	-
Nominal voltage	-	3.0	V
Delivery voltage	Open circuit voltage	3.05~3.40	V
Nominal capacity ¹⁾	Discharge with 1mA to 2.0V at 25±5° C	1600	mAh
Minimum capacity ¹⁾		1500	mAh
Cell internal resistance	AC impedance	≤1	Ω
Maximum discharge current ²⁾	Discharge continuously to 2.0V at 25±5° C, and the discharge capacity reaches 800mAh	1500	mA
Maximum pulse discharge current ³⁾	Pulse cycle discharge at 25±5° C, 3s on 27s off, discharge to 2.0V, the output capacity can reach 800mAh	3000	mA

Operating temperature	The performance of the battery will decrease under low temperature	-40~+70	°C
Average weight	-	16.5	g
Storage life	Storage environment: 25±5°C, ≤65%RH	10	years



Warnings

- Keep away from children and unauthorized persons.
- Do not disassemble, puncture, crush, or modify the battery pack.
- Do not expose the battery to fire, excessive heat, or direct sunlight.
- Avoid contact with water, moisture, or corrosive substances.
- Use only the specified charger and approved accessories.
- Do not short-circuit the terminals.
- Stop using the battery immediately if it becomes hot, emits odor, leaks, or shows any abnormal condition.
- Charge and store the battery in a cool, dry, and well-ventilated area.
- Do not use a damaged or swollen battery.
- Dispose of the battery in accordance with local environmental regulations.
- Do not mix old and new batteries or different battery types.
- Disconnect the battery from the device when not in use for an extended period.
- Ensure correct polarity when connecting the battery.
- Recharge the battery regularly during long-term storage to maintain performance.
- Follow all instructions provided in the product manual.

Ropla Elektronik HP sp. z o.o.
ul. Wrocławska 1C, 52-200 Suchy Dwór, Poland
Contact: sales@akygabattery.com



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