2.6Ah, 1.5V Primary Alkaline Zinc Manganese Dioxide Battery

RoHS Compliant

Features

- Nominal capacity 2.6Ah
- Nominal voltage: 1.5V
- Off-load voltage 1.56V(typ.)
- On-load voltage 1.4V(typ.)
- Weight: 24g
- Dimensions: ϕ 13.5x50.5mm
- Protruded positive(+) and flat negative (-) contacts
- Metallic Foil Jacket
- 1-year warranty

*Product images are for illustrative purposes only and may vary from actual design.

Applications

- Radio communication and other military applications
- Alarms and security systems
- Beacons and emergency location transmitters
- GPS equipment
- Metering systems
- LED lighting applications

Model List*(See part number scheme for model number details)

Model Number	Nominal Capacity	Nominal Voltage	Off-load Voltage	On-load Voltage	Test Temp.
APS-LR65014-2.6Ah	2.6Ah	1.5V	1.56V(typ.)	1.4V(typ.)	20±2C˚

Chemical System

Alkaline Zinc-Manganese Dioxide (KOH Electrolyte)

Heavy Metal Contents

Mercury(Hg)	≤1ppm	2006/66/EC/ Specification(%)
Cadmium(Cd)	≤20ppm	2006/66/EC/ Specification(%)
Lead(Pb)	≤40ppm	2006/66/EC/ Specification(%)

Characteristics

	Off-load Voltage	On-load Voltage	Acceptance Standard
Initial within 30 day	1.58V	1.45V	MIL-STD105E, II, AQL=0.4
After 3 months at 45˚C	1.56V	1.4V	
After 12 months	1.56V	1.4V	

Conditions:

3.9Ω±0.5% load resistance, measuring time 0.3 seconds, temperature at 20±2˚C, the hairspring type ampere meter with ±0.5% accuracy (0.5level) shall be used.

■ Service Time

Discharge Condition			Average Minimum Discharge Time		
Discharge load	Daily discharge time	End Point Voltage	Initial within 30 days	After 12 months at 45˚C	After 60 months at 20±2˚C
43 Ω	4h/d	0.9V	90.0hrs	88.0hrs	65hrs
3.9 Ω	1h/d	0.8V	7.0hrs	6.5hrs	5.0hrs
24 Ω	15s/m,8h/d	1.0V	45.0hrs	44.0hrs	33.0hrs
3.3 Ω	4min/d-8h/d	0.9V	270mins	240mins	190mins
3.9 Ω	24h	0.9V	370mins	350mins	330mins
100mA	1h/d	0.9V	18.5h	18h	15h
250mA	1h/d	0.9V	7.0h	6.5h	5.0h
1000mA	10s/m,1h/d	0.9V	350times	300times	220times
1500mW/2s 650mW/28	5min/d 55min	1.05V	65times	55times	45times

Conditions: Test Temp. 20±2°C, Relative Humidity: 60±15%

Satisfaction standard:

- 9 pieces of battery will be tested for each discharging standard.
- The result of the average discharging time from each discharging standard shall be equal to or more than the average minimum time requirement.

■ Safeties

IEC 60086-1:2007	Primary Batteries-Part1: General
IEC 60086-2:2007	Primary Batteries-Part2: Physical and Electrical Specification
GB 8897.2-2013	GB 8897.2-2013

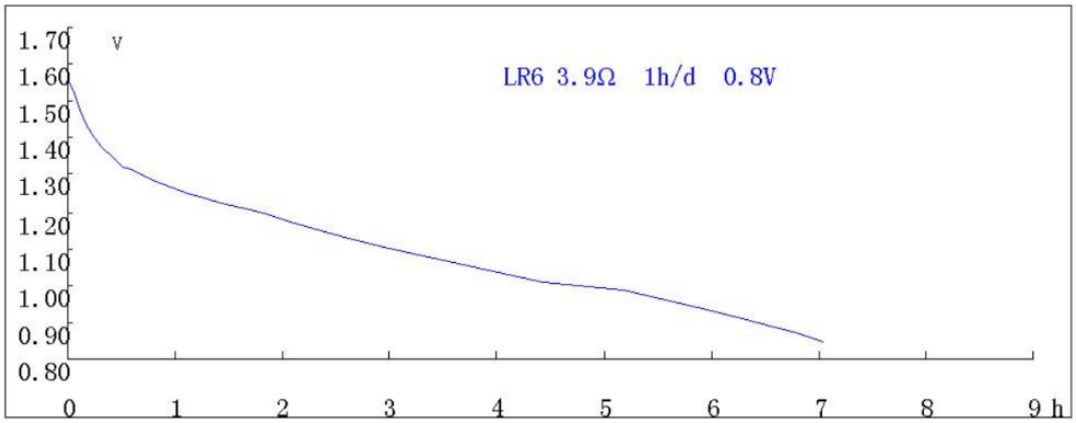
■ Safety Characteristics

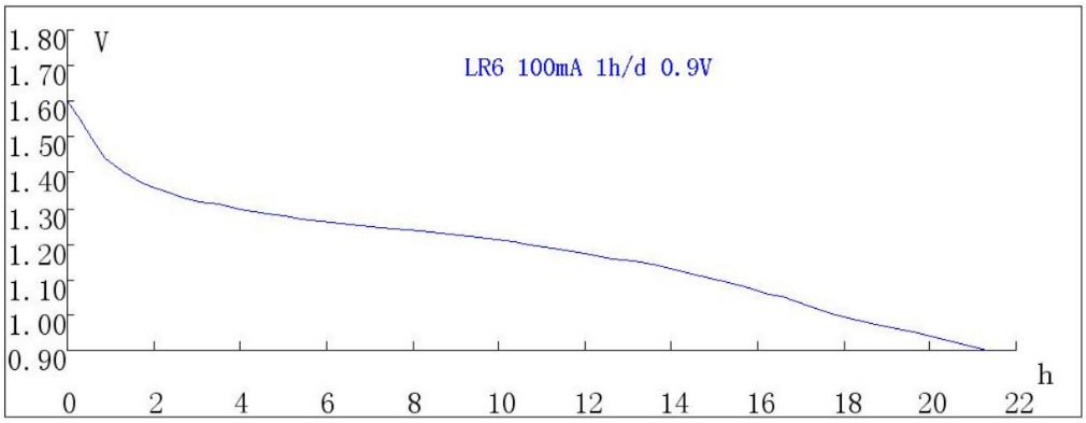
Item	Condition	Period	Characteristics	Acceptance Standard
Short Circuit Characteristics	Temp.: 20±2°C	24 hours	There shall be no explosion* of battery	N=8 Ac=0 Re=1
Abusive Characteristics	Short circuit 4 pieces of battery in series, one of them has to be connected with its polarity reversed	24 hours		N=8 Ac=0 Re=1

■ Electrolyte Leakage Proof Characteristics

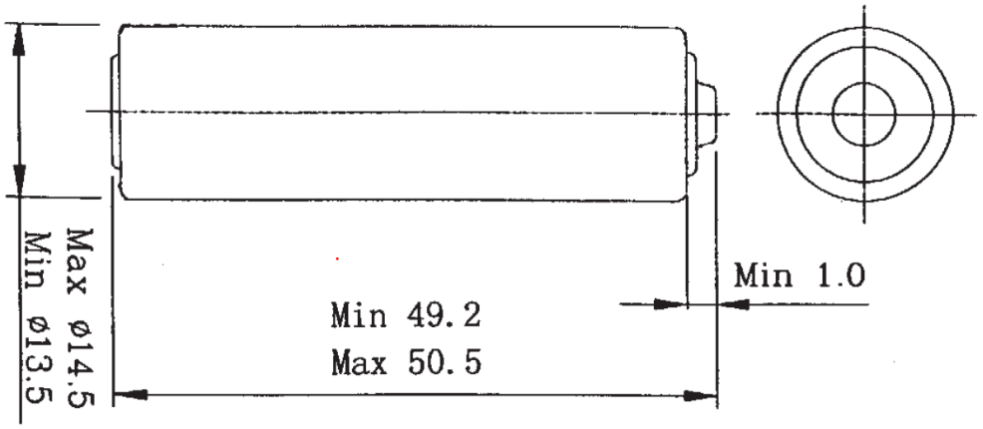
Item	Condition	Period	Characteristics	Acceptance Standard
Over-discharge leakage test	10Ω continuous discharge at temp. 20±2°C, relative humidity: 60±15%RH	48 hours	There shall be no deformation exceeding the specified dimensions nor leakage recognized by visual charcteristics	N=8 Ac=0 Re=1
High temp. storage leakage test	At temp. 60±2°C, relative humidity less than 90%RH	30 hours		N=8 Ac=0 Re=1

■ Derating Curves

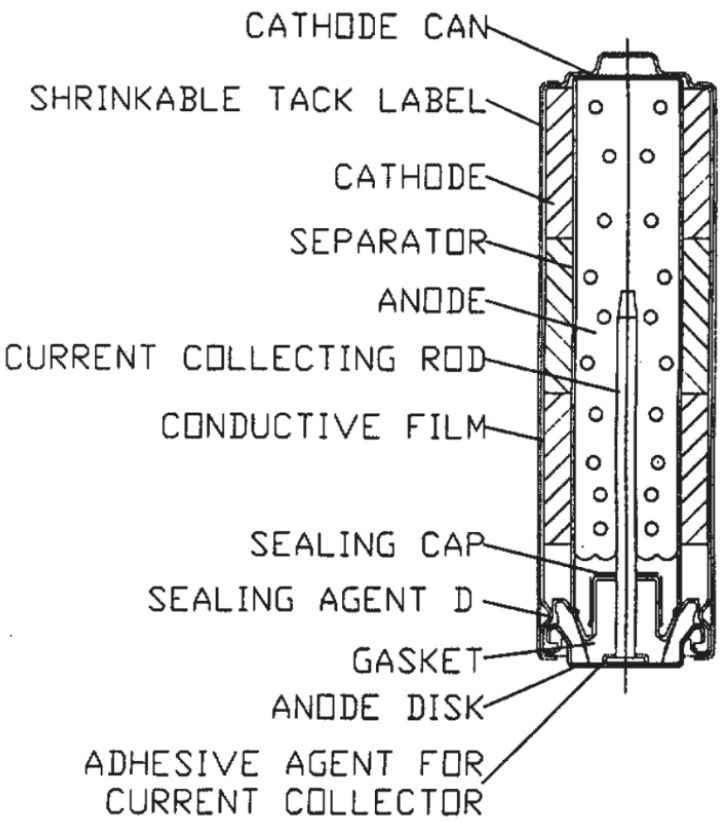




■ Mechanical Diagram

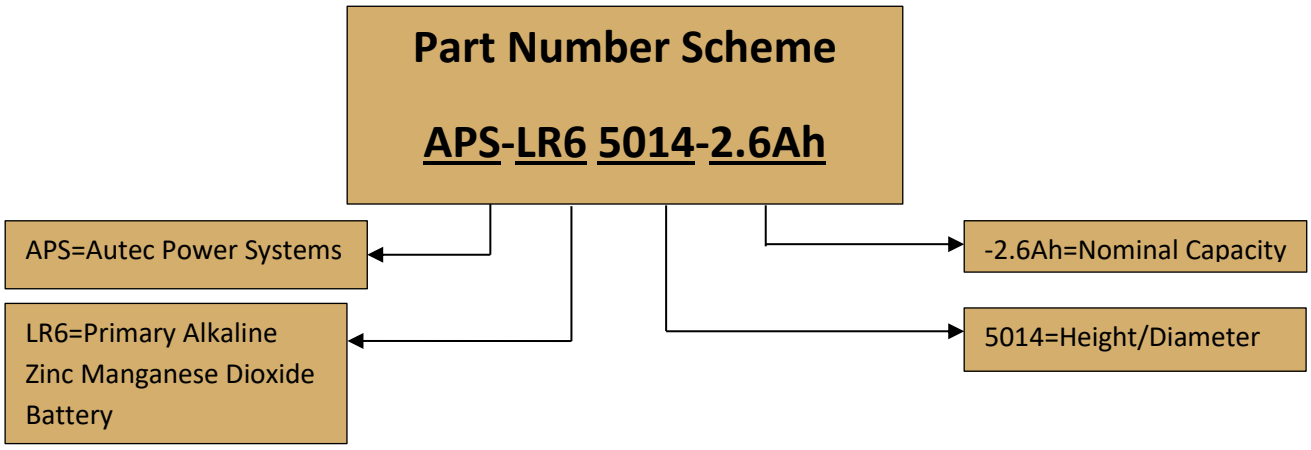


■ Battery Structure



Warnings

1. **Since the battery is not manufactured for recharging, there are risks of electrolyte.**
2. **The battery shall be installed with its "+" and "-" sign according to the instruction shown on the applied device.**
3. **Short-circuiting, heating, disposing of in fire, or dissembling the battery shall be prohibited.**
4. **Avoid using old and new batteries together.**



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