

■ **Features**

- Nominal capacity 0.5Ah
- Nominal voltage: 1.5V
- Off-load voltage 1.6V(typ.)
- On-load voltage 1.35V(typ.)
- Weight: 6.8g
- Dimensions:  $\phi$  8.3x42.5mm
- 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-LR614208-0.5Ah	0.5Ah	1.5V	1.6V(typ.)	1.35V(typ.)	20 $\pm$ 2 $^{\circ}$

■ **Chemical System**

Alkaline Zinc-Manganese Dioxide (KOH Electrolyte)

Heavy Metal Contents

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

■ **Characteristics**

	Off-load Voltage	On-load Voltage	Acceptance Standard
Initial within 60 days	1.6V	1.35V	GB2828.1-2003, AQL=1.0
After 12 months	1.55V	1.3V	

Conditions:

3.9 $\Omega$  $\pm$ 0.5% load resistance, measuring time 0.3 seconds, temperature at 20 $\pm$ 2 $^{\circ}$ C, the hairspring type ampere meter with  $\pm$ 0.5% accuracy (0.5level) shall be used.

■ Service Time

Discharge Condition			GB Standard	Average Minimum Discharge Time	
Discharge load	Daily discharge time	End Point Voltage		Initial within 30 days	After 12 months at 20±2°C
30 Ω	24h/d	0.9V	/	12.5hrs	12h
5.1 Ω	5min/d	0.9V	90mins	100min	90min
5.1 Ω	24h/d	0.9V	/	75min	67min
75 Ω	24h/d	0.9V	/	32h	30h

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.

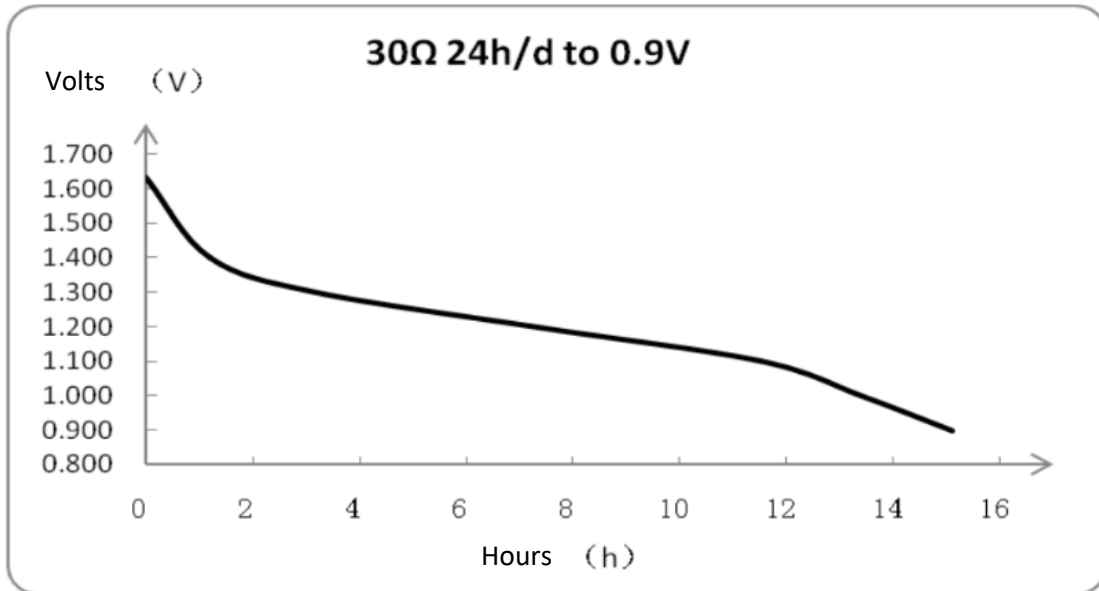
■ Safeties

IEC 60086-1:2007	Primary Batteries-Part1: General
IEC 60086-2:2007	Primary Batteries-Part2: Physical and Electrical Specification
IEC 60086-5:2007	Primary Batteries-Part5

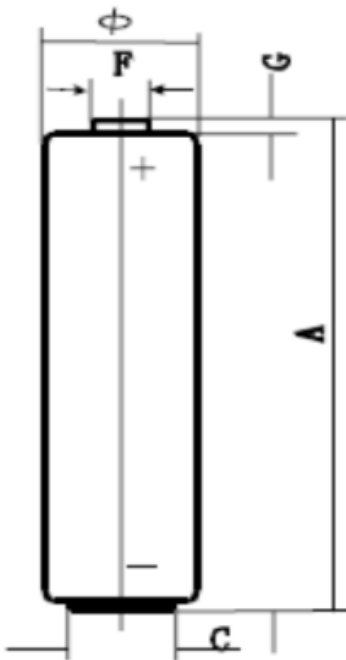
■ Electrolyte Leakage Proof Characteristics

Item	Condition	Period	Characteristics	Acceptance Standard
Over-discharge leakage test	30Ω 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 characteristics	N=9 Ac=0 Re=1
High temp. storage leakage test	At temp. 60±2°C, relative humidity less than 90%RH	20 Days		N=30 Ac=0 Re=1

■ Discharge Curves



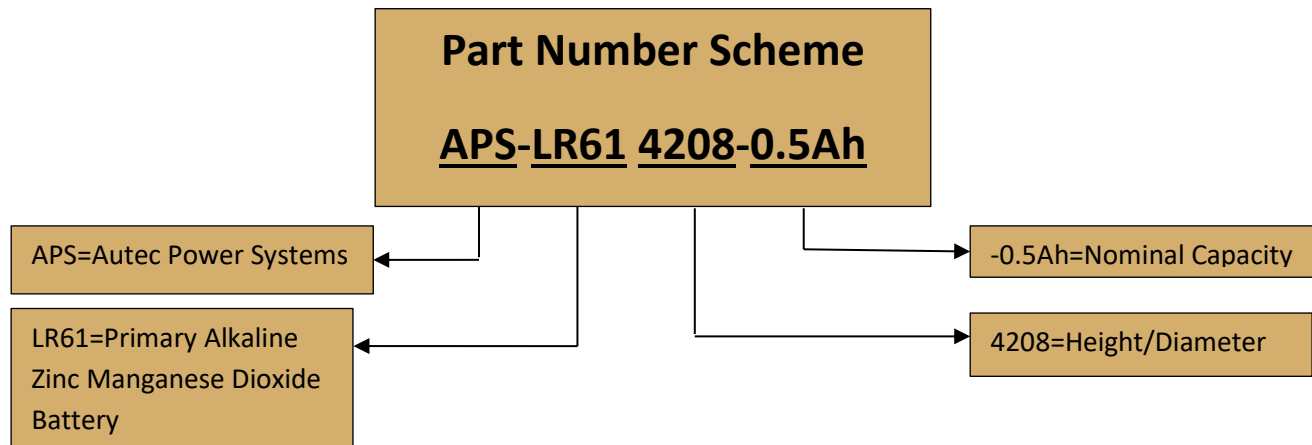
■ Mechanical Diagram



Unit: mm		
Call out	Max.	Min.
A	42.5	41.5
C	/	2.3
F	3.8	/
G	/	0.7
φ	8.3	7.7

■ **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 disassembling the battery shall be prohibited.
4. Avoid using old and new batteries together.



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\*Specifications are subject to change without notice. Autec is not responsible for issues arising from errors or omissions.