

25mAh, 3.7V Rechargeable Lithium-ion Polymer(LiPO) Battery

RoHS  Compliant

■ Features

- Rechargeable Lithium-ion Polymer(LiPO)
- Nominal capacity 25mAh
- Nominal voltage: 3.7V
- Standard Charge 4.5 hours
- Standard Charge Temp. 0°C to 45°C
- Discharge Temp. -10°C to 60°C
- Dimensions: 13x10x3.7mm
- 1-year Warranty



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

■ Applications

- Small portable electronics

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

Model Number	Nominal Capacity	Nominal Voltage	Minimum Capacity	Charge Time
APS16-LP371013-25mAh	25mAh, 0.2C Discharging	3.7V	25mAh, 0.2C Discharging	4.25 Hours

■ Charging Table

C-rate	Time
5C ₍₁₎	12 min
2C ₍₁₎	30 min
1C ₍₁₎	1h
0.5C ₍₁₎ or C/2	2h
0.2C ₍₁₎ or C/5	5h
0.1C ₍₁₎ or C/10	10h
0.05C ₍₁₎ or C/20	20h

Table 1: C-rate and service times when charging and discharging batteries of 1Ah (1,000mAh)

■ Technical Data

Rated Capacity	25mAh, 0.2C Discharging
Minimum Capacity	25mAh, 0.2C Discharging
Nominal Voltage	3.7V
Charge Current	Standard Charge: 0.2C;
Standard Charging Method	0.5C constant current charge to 4.2V, then constant voltage 4.2V charge, until charged current declines to ≤0.01C
Charging Time	Standard Charge: 4.5h
Max Discharge Current	Constant current 1C end voltage 3.0V
Standard Discharge Current	Constant current 0.2 C end voltage 3.0V
Discharge Cut-off Voltage	2.75V
Charge Cut-off Voltage	4.2V
Cell Impedance	≤230mΩ

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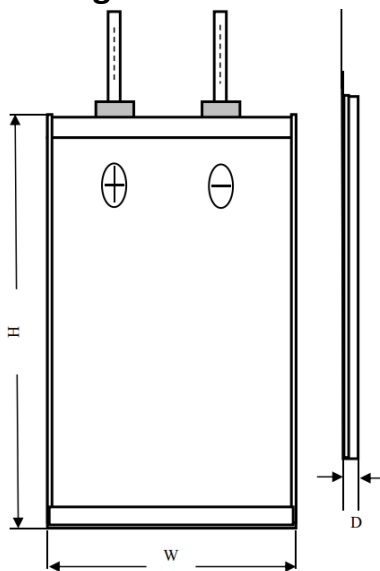
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September 8, 2022

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Weight	TBD
Operating Temperature	Charging: 0°C~45°C, Discharge: -10°C~60°C
Storage temperature	-5°C~35°C
Storage Humidity	≤75% RH
Appearance	Without scratch, distortion, contamination, or leaks
Standard Environmental Condition	Temperature: 23±5°C, Humidity: 45-75%RH, Atmospheric Pressure: 86-106Kpa
Cycle Life	Constant current 0.5C charge to 4.2V, then constant voltage charge to current declines to 0.01C, rest 10min , constant current 0.2C discharge to 3.0V , rest 10min. Repeat the above steps till the continuously discharging capacity is Higher than 80%of the Initial Capacities of the Cells, ≥500 times
The capability of keeping electricity	20±5°C, After standard charging, rest the battery 28days, discharging at 0.2C to a capacity Higher than 80% recording the discharging time, ≥240min
Discharge at a high temperature	After standard charging, rest the Cells for 4h at 60 ± 2 °C, then discharge at 1C to voltage 3.0V, recording the discharging time. ≥54min
Discharge at low temperature	After standard charging, rest the Cells for 16h at -20±2°C, then discharge at 0.2C to voltage 3.0V, recording the discharging time. ≥210min
Thermal shock	Put the battery in the oven. The temperature of the oven is to be raised at 5±2°C per minute to a temperature of 130±2°Cand remains for 30 minutes.
Overcharge testing	At 23±5°C, charging batteries with constant current 3C to voltage 5V, then with constant voltage 5V till current declines to 0. Stop test till batteries' temperature is 10°C lower than max temperature.
Over discharge testing	At 23±5 °C, According to the requirements of standard charge, the battery will be discharged to cut-off voltage, then connected with an external load of 30 ohms for 24 hours.
Short-circuit testing	At 23±5°C, After standard charging, connect batteries' anode and cathode by wire which impedance less than 50m Ω, keep 6h

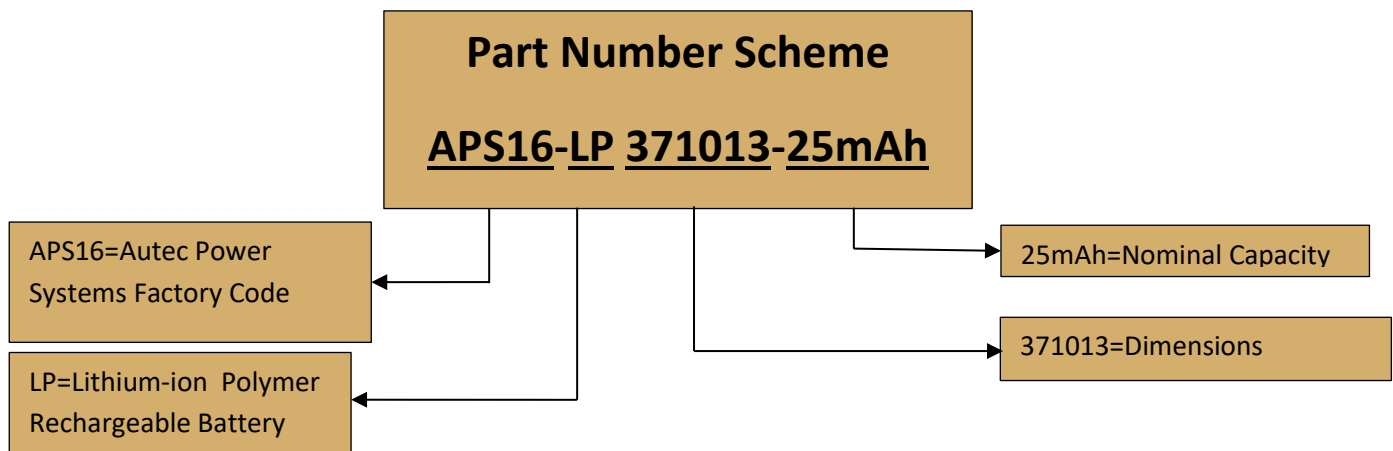
■ Mechanical Diagram



Item	Requirement
D	3.7±0.2mm max.
W	10±0.5mm max.
H	13±0.5mm max.

■ **Warnings**

1. Install batteries correctly.
2. Ensure the contact points to be clean and conductive.
3. Do not mix different types or brands of batteries in any application.
4. Do not expose the batteries to heat or fire.
5. Keep away from small children.
6. Please check the manufacturing date code.



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