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Polymer Lithium-ion Battery

Product Specification

Model: CU-JAS306

AA Portable Power Corp
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1. Scope

This product specification is for polymer lithium-ion battery. Please using the test methods that recommended in this specification.

If the battery should be using at the environment that not preferred in this document, please contact us first and get our authorization.

It is claimed that we should have no responsibility with the contingency and loss due to the wrong usage (not preferred in the product specification).

2. Product Type, Model and Dimension

2.1 Type: Polymer lithium-ion battery

2.2 Model: CU-JAS306

3. Battery Specification

Item	Specification	Remark
Nominal Capacity	5000 mAh	0.2C ₅ A discharge
Nominal Voltage	3.7V	Average Voltage at 0.2C ₅ A discharge
Charge Cut-off Voltage	4.2V±0.03V	Average Voltage at 0.2C ₅ A discharge
Discharge cut-off Voltage	3V	Average Voltage at 0.2C ₅ A discharge
Charge Current	Max: 2.5A	Working temperature: 0~45°C
Discharge Current	Max: 7A	Working temperature: -20°C—60°C
Impedance	≤ 10 mΩ	Upon fully charge at 1kHz
Polyswitch	7A	Part# LR4-730F
Protection PCM	Continuous Charge & Discharge: 8A	Part#PCB-LI3.7V8A
Storage temperature	≤1month	-20~45°C
	≤3month	0~30°C
	≤6month	20±5°C
Storage humidity	65±20% RH	Best 20±5°C for long-time storage
Dimension	117×51×10 mm, +/- 5mm	
Weight	Approx: 105g	Thickness × Width × Length
Connector	None	
Wire	7.5" length 18 AWG	
PVC	1 layer of PVC	White
Transportation	30~50% charged states	Ground Transportation
Maintenance	Charge every 6 months or Voltage below 3V	If battery voltage below 3V, charge immediately
UN 38.3 Test	Passed	



4. Caution and Prohibition in Handling

Warning for using the lithium ion rechargeable battery. Mishandling of the battery may cause heat, fire and deterioration in performance. Be sure to observe the following.

4.1 Caution

- When using the application equipped with the battery, refer to the specification before usage.
- Please read the specific charger manual before charging.
- When the battery is not charged after long exposure to the charger, discontinue charging.
- Battery must be charged at operating temperature range 0 ~ 45°C.
- Battery must be discharged at operating temperature range -20 ~ 60°C.
- Please check the positive (+) and negative (-) direction before charging.
- Battery must be stored separately.
- Battery must be stored in a dry area with low temperature for long-term storage.
- Do not place the battery in direct sunlight or heat.
- Do not use the battery in high static energy environment where the protection device can be damaged.
- When rust or smell is detected on first use, please return the product to the AA Portable Power Corp immediately.
- The battery must be away from children or pets.
- When battery life span shortens after long usage, please exchange to new cells.

4.2 Prohibitions

- Do not use cigarette jacks (in cars) for charging.
- Do not charge with constant current more than maximum charge current.
- Do not disassemble or reconstruct the battery.
- Do not throw or cause impact.
- Do not pierce a hole in the battery with sharp things. (such as nail, knife, pencil, drill).
- Do not use with other batteries or cells.
- Do not press the battery with overload in manufacturing process.
- Do not use old and new cells together.
- Do not expose the battery to high heat. (such as fire).
- Do not put the battery into a microwave or high-pressure container.
- Do not use the battery reversed.
- Do not connect positive (+) and negative (-) with conductive materials (such as metal, wire).
- Do not allow the battery to be immersed in or wetted with water or sea-water.

Revision Changes

December 3, 2020	Add Caution and Prohibition in handling
November, 2014	Document Created