

Model No.: GPCR14250

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1. APPLICABILITY

This specification is applicable to GP Lithium Battery, GPCR14250.

2. GENERAL

2.1 Type designation : CR14250

2.2 Nominal voltage : 3V

2.3 Capacity : 800mAh

2.4 Shape and dimension : Refer to Drawing 1.

2.5 Typical weight : 9g

2.6 Operating temperature : -40°C to 60°C

2.7 Shelf life : 10 years at 20±2°C storage

3. APPEARANCE

There shall be no dirt, scratch or deformation detrimental to practical service in appearance.

4. CELL VOLTAGE

4.1 Test method

Method of sampling : MIL-STD-105E level II single sampling normal inspection.

Voltmeter : Digital Voltmeter (DVM) with the precision of 1mV (internal resistance

not less than 1 Megohm)

Test temperature : 20±2°C

4.2 Off Load Voltage

At shipping	Within 12 months after manufactured
3.0V~3.4V	3.0V~3.4V

4.3 On Load Voltage

Initial	Within 12 months after manufactured
2.90V~3.35V	2.90V~3.35V

Load resistance: 50 ohm ± 0.5% (measure time: 1 second)



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5. SERVICE OUTPUT

5.1 Test method

- (1) The resistance of external discharge circuit shall be as specified plus or minus 0.5%.
- (2) The duration of discharge time periods shall be as specified plus or minus 1%.
- (3) Storage shall be at 23±2°C, 55±20%RH and discharge tests shall be at 23±2°C, 55±20%RH.

5.3 Pulse discharge

Ambient Temperature	Discharge	Initial (Minimum)	Within 12 months storage at 23°C (Minimum)
Service life at 23±2°C	200Ω, 24H/D (EPV=1.8V)	55H	54H

s: second H: hour D: day

EPV: end point voltage

(23±2°C and 55±20% relative humidity)

6. ELECTROLYTE LEAKAGE

	Test Items	Test Conditions	Requirements
6.1	Arrival at warehouse	Within two months after shipping	There shall be no leakage observed with naked eye and no bulging or deformation of batteries in
6.2	Long term storage	Within storage period of 12 months at 20 \pm 15°C, 55 \pm 20%RH	excess of dimensions on shown in the Drawing 1
6.3	High Temperature	Test specimens shall be kept standing at 45±2°C and below 70% RH or less for 30days	

^{*}The initial discharge test shall commence within 30 days of manufacture. During this period, the cells shall be stored under room temperature conditions.



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7. QUALITY ASSURANCE

DESCRIPTION	SAMPLING PLAN	
Battery dimensions	0.55% (Note 5)	
Appearance	1.0% (Note 5)	
Off load voltage	0.55% (Note 5)	
On load voltage	1.0% (Note 5)	
Service output	Note 1 (Note 5)	
Leakage 6.1	0.55% (Note 2 & 5)	
6.2	6.2 Note 3	
6.3	6.3 Note 4	

Note 1: Acceptance / rejection in accordance with IEC publication 60086-1 (2011), Sub-clause 5.3.

- 1) Test nine batteries.
- 2) Calculate the average without the exclusion of any result.
- 3) If this average is equal to or greater than the specified figure and no more than one battery has a service output of less than 80% of the specified figure, the batteries are considered to conform for service output.
- 4) If this average is less than the specified figure and/or more than one battery has a service output of less than 80% of the specified figure, repeat the test on another sample of nine batteries and calculate the average as previously.
- 5) If the average of this second test is equal to or greater than the specified figure and no more than one battery has a service output of less than 80% of the specified figure, the batteries are considered to conform for service output.
- 6) If the average of second test is less than the specified figure and/or more than one battery has a service output of less than 80% of the specified figure, the batteries are considered not to conform and no further testing is permitted.
- Note 2: Leakage on arrival at warehouse is within two months after shipping.
- Note 3: Sample size : n=20

Judgement: Ac=1 Re=2

Note 4: Sample size :n=20

Judgement :Ac=0, Re=1

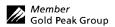
Note 5: AQL General Inspection level II, single sampling plan.

8. PACKAGING

Packaging shall be a form agreed by both parties.

9. WARRANTY

One (1) year limited warranty against workmanship and material defects.





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Precaution & Handling

- 1) Do not disassemble or short-circuit batteries.
- 2) Do not recharge batteries.
- 3) Do not dispose of batteries in fire.
- 4) Do not allow metal objects to contact the battery terminals.
- 5) Do not mix with used or other battery type (such as alkaline with carbon zinc).
- 6) Do not solder the batteries directly. If soldering or welding connection to the battery is required, consult our engineer for proper methods.
- 7) Do not over-discharge batteries. Force discharging batteries by external power source in a series may cause explosion.
- 8) To install or remove batteries, follow the equipment manufacturer's instructions.
- 9) Keep battery away from small children. If swallowed, consult a physician at once.
- 10) Remove batteries from device when it is not in use.

Storage

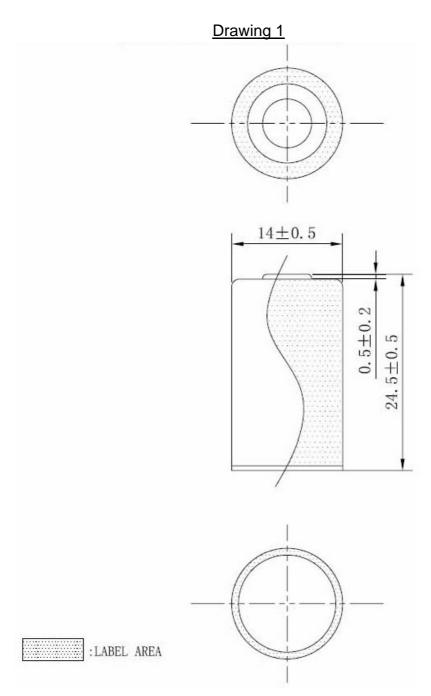
- 1) Store in a cool, dry place before use.
- 2) Do not keep batteries at temperature of 45°C or above.
- 3) Do not keep batteries at relative humidity of 75% or above.

GP Batteries

Product Specifications

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Unit: mm