

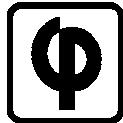
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CHUNG PAK

SPECIFICATIONS

FOR SILVER OXIDE BUTTON CELL

TYPE : 357

RECEIVED BY :

Prepared by _____

Approved by _____

CHUNG PAK

(DATE : JAN 2006)



Silver Oxide Button Cell 357

1、 Scope

The specification is applicable to the " VINNIC " brand Silver Oxide Button Cell 357 supplied by CHUNG PAK BATTERY WORKS LTD.,

2、 Kind of Products Specified

Name (Designation) : 357

IEC Designation : SR44

3、 Technical Specification

3.1 Dimension :

Height (H)	$5.4^{+0}_{-0.4}$	mm
Diameter ()	$11.6^{+0}_{-0.25}$	mm

3.2 Average Weight : 1.93 g

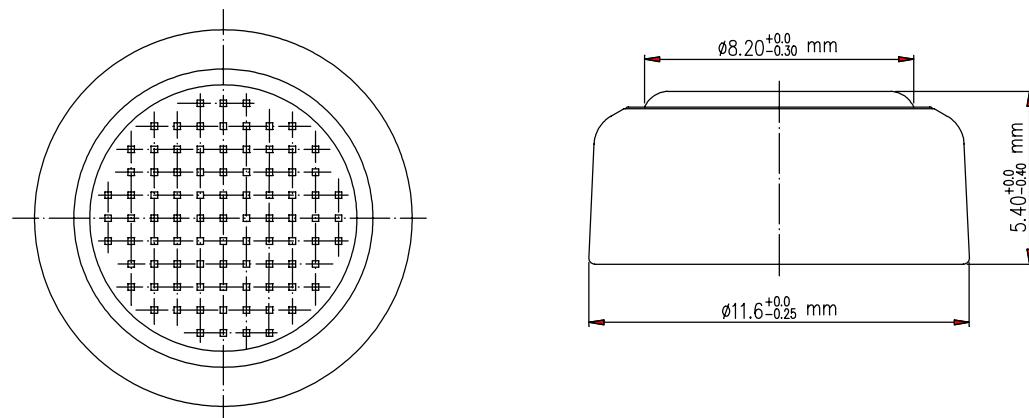
3.3 Nominal Voltage : 1.55V

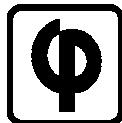
3.4 Nominal Capacity : 175 mAh (Discharge at 1K to 0.9V)

3.5 Typical Discharge Duration: 139 hrs (Discharge at 1K to 0.9V)

600 hrs (Discharge at 6.8K to 1.2V)

3.6 Outside Shape Dimensions and Terminals :





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4. *Performance*

4.1 Open-circuit Voltage :

Initial	1.55 – 1.65 V
After 12 Months Storage	1.52 – 1.60 V

4.2 Service Out-put :

Load Resistance	1K	6.8K
Discharge Method	Continuously	Continuously
End-point Voltage	0.9V	1.2V
Minimum Duration (Initial)	132 Hrs	586 Hrs
Minimum Duration (After 12 Months Storage)	110 Hrs	520 Hrs

Remark : The word " initial " is applicable to the products elapsed three months or less after production.

4.3 High Temperature Electrolyte Leakage Resistance :

No deformation and no external electrolyte leakage shall be observed.

4.4 Expiry period : One year .

5. *Brand and packaging*

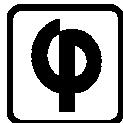
Any specific design and packing requirements will be accommodated required.



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6. Safety instructions

Warning	Danger
Don't throw the batteries into fire or heat the batteries	This may cause the batteries to ignite or disrupt
Don't directly solder the batteries	This may damage their insulating tapes and protective installation
Don't use the batteries with the electrode inverse	This can damage the batteries for being over-charged or over-discharged, even may cause leakage, heat generation, disrupt, or ignition
Don't expose the batteries to water	This can cause heat generation or rust
Don't charge batteries	This may result in venting, leakage, explosion and/or possibly fire
Don't disassemble or damage the external tubes of the batteries or modify the batteries (stack-up batteries) etc.	This easily results in short-circuit, leakage, even ignition
Immediately stop using the batteries if leakage, discolor or etc. with them are detected	This may cause accidents to occur
Don't drop or strongly strike the batteries	This may result in leakage, heat generation, disrupt, even ignition
Be sure to use the batteries within a temperature range from 0 to 40	Charge the batteries beyond the temperature range may cause leakage, heat, generation, impaired performance, and shortening of service life of the batteries
Don't use old batteries with new ones	This may cause short-circuit or heat generation
Don't use our batteries with any other type or brand of batteries	Mixed-matching of batteries may result in leakage, heat generation and bursting
Keep the batteries out of the reach of children	To avoid being swallowed. If swallowed, please see doctor immediately



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Appendix 1 : Test

1. Storage and Test Conditions for Samples

Unless otherwise specified, the storage conditions for samples shall be, as a general rule, at the temperature of 20 ± 2 and the humidity of $65 \pm 20\%$.

2. Measuring Instruments

2.1 Voltmeter : The accuracy of the voltmeter shall be within 0.005V for each 1.5V. The resistance of the measuring instrument shall be at least 10 times the discharge resistance but with a minimum of 1 M ohms per volt of the scale.

2.2 Load Resistance : The load resistance shall include all of the external circuit, and its allowance shall be within $\pm 0.5\%$.

2.3 Caliper : The caliper shall be the one having precision of 0.02 millimeters or the one having the same or superior precision to this.

3. Test Method

3.1 Dimensions : Measurements shall be made by use of the calipers.

3.2 Appearance : Examination shall be carried out by visual inspection .

3.3 Open-circuit Voltage : Measurements shall be carried out before the start of discharge of the sample by use of the voltmeter .

3.4 Service Out-put

Discharge Start Time : After leaving in an atmosphere at a temperature of 20 ± 2 for at least 8 hours or more .

Discharge Method : As defined in 4.2 , page 2 .

Discharge End-point : The instant when the closed-circuit voltage has reached below the end-point voltage(as defined in 4.2, page 2).

3.5 High Temperature Electrolyte Leakage Resistance

The following conditions shall be adopted for the test :

(1) Test temperature and humidity : 45 ± 2 , below 70%RH .

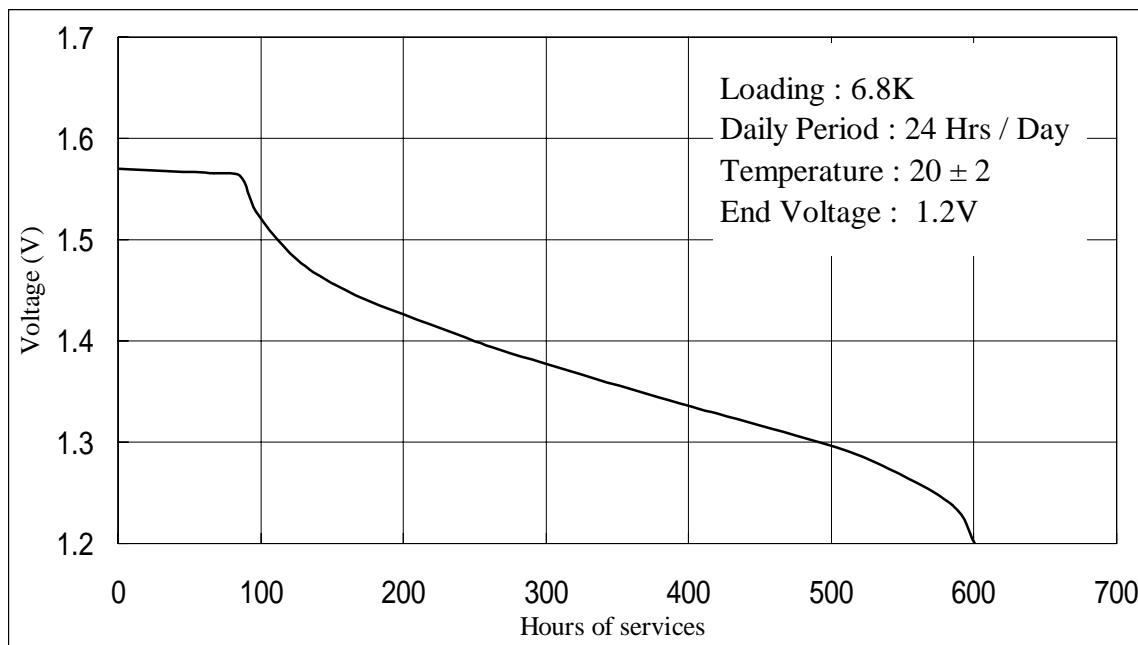
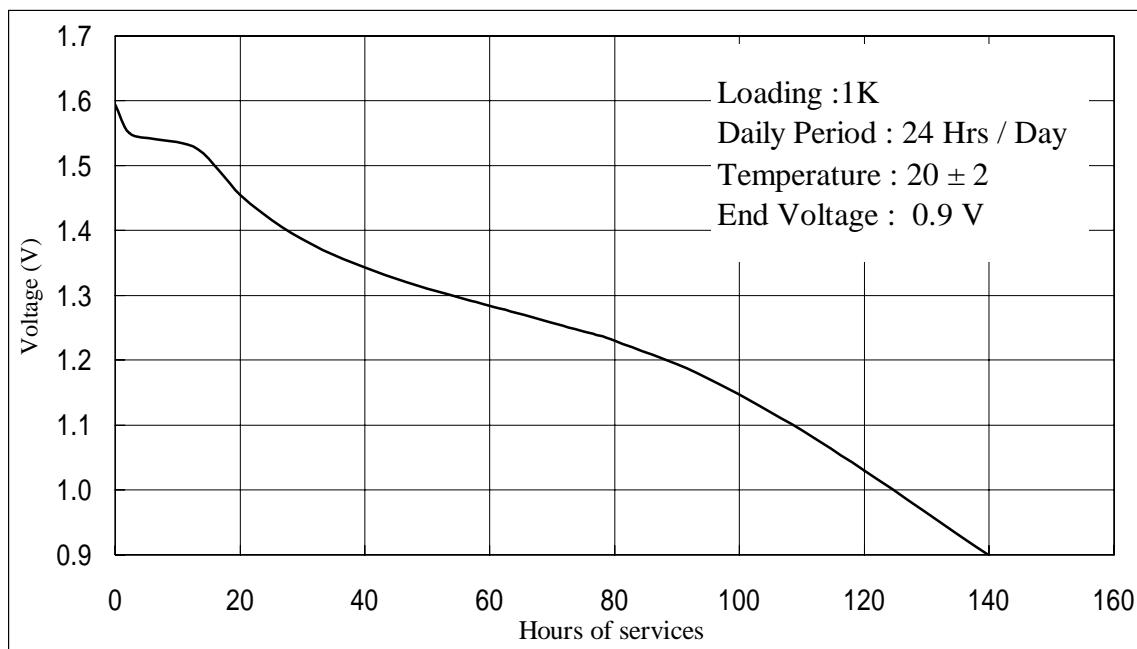
(2) Test period : Leave to stand still 30 days .

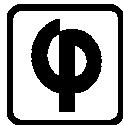


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Appendix 2 : Discharge Characteristics

Standard Discharge Curve :





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Temperature Characteristic :

