

Product Specification

1. Scope : This specification is applicable to the following product : C MJ Sanyo Super (Blue)
2. Type : Size C (R14) / UM - 2 : Sanyo Super (Blue) .
3. Nominal Voltage : 1.5 V
4. Figure and Dimensions : See : SPE No. 042.
5. Standard Weight : 50 ± 1.5 grams
6. Terminal : + : Cap Terminal, - : Base Terminal
7. Chemical properties : No Mercury addition to the battery
8. Quality Characteristics
 - 8.1. Dimensions : Dimensions are shown in SPE No. 042.
 - 8.2. Terminal : There shall be no rust or deformation that occurs troubles practically.
 - 8.3. Appearance : There shall be no rust or deformation or scratch that occurs troubles practically.
 - 8.4. Electrical Characteristics.

(Table 1)

Item		Requirement		Test Condition	
Open Circuit (V)		Initial	Over 1.54	Temp	: 20 ± 2°C
		After 12 months	Over 1.50	RH	: 65 ± 20 %
Closed Circuit (V)		Initial	Over 1.40	Temp	: 20 ± 2°C
		After 12 months	Over 1.30	RH	: 65 ± 20 %
				Load	: 4 Ω
Service Life (H)	Discharge at 6.8 Ω	Initial	Over 8.0	Temp	: 20 ± 2°C
		After 12 months	Over 6.6	RH	: 65 ± 20 %
				End Voltage	: 0.9V
				Daily Period	: 1h

8.5. Leakage Resistability

(Table 2)

Item	Rest Condition	Requirement
High Temperature Leakage Test	Temp. : 45 ± 2°C RH : Under 70 % Storage Period : 3 months	There shall be no deformation in excess over MAX. dimensions shown in product dimensions and no visible leakage.

9. Test

9.1. Storage and Test Conditions

- (1) Storage Condition
Storage condition shall be kept at 20 ± 2° C and at 65 ± 20%RH.
- (2) Test Condition
Test shall be conducted at 20 ± 2° C and at 65 ± 20%RH.

9.2. Instruments and Devices

- (1) Voltmeters
Voltsmeters used model CP 1706.2 supplied by Newport Instrumentation of Cleveland with accuracy = 0.25%
- (2) Load Resistance
The load resistance shall include all resistances in external circuit, and its tolerance shall be ± 0.5%.
- (3) Calipers
Caliper used with accuracy 0,001"

9.3. Test Methods

- (1) Dimensions
Measurement shall be made with calipers or measuring device having equal or better precision specified in 9.2 (3).
- (2) Terminals
Visually
- (3) Appearance
Visually
- (4) Open-Circuit Voltage
Shall be measured with a volt meter specified in 9.2 (1), after the batteries have been leaving at

20 ± 2° C for 8 hours minimum.

(5) Closed-Circuit Voltage

Shall be measured with a volt meter specified in 9.2 (1), under the load specified in table 1, after the batteries have been leaving at 20 ± 2° C for 8 hours minimum.

(6) Service Life

The test batteries shall be leave at 20 ± 2° C and 65 ± 20%RH, for 8 hours minimum and then shall be discharged continuously as specified in table 1.

(7) Overdischarge Leakage Test

N/A.

(8) High Temperature Leakage Test

The test batteries shall be started at 45 ± 2° C and at 45-60%RH, for up to 3 months, and shall then be inspected for leakage and deformation by visual means and by used of calipers.

10. Quality Inspection

10.1 Inspection item and its method

Inspection shall be done by normal sampling plan as per MIL STD 105D, unless it is specified.

Remarks :

MAJOR DEFECT : Leakage
 Mistake on Brand
 Rusting or Corroded
 Excessive Tool Marks

MINOR DEFECT : Scratches
 Poor Graphics
 Indistinct Marking

10.2 Inspection Lot

One lot of supply to be a inspection lot.

10.3 The starting time of inspection

The inspection shall be started within one week after the supply.