

PRODUCT SPECIFICATION

Longlife R20

REV. No.	REASON	CONTENTS	DATE	REMARK
0	Initial Release		2020-01-03	

Longlife R20P

1. Description

R20 IEC: R20P
 JIS: UM1
 ANSI: 13D
 Common: D

2. Chemical System

Zinc Chloride-Zinc-Manganese Dioxide (Mercury Free)

3. Nominal Voltage: 1.5V

4. Nominal Weight: 78.0-84.0g

5. Hg Content: ≤1ppm

6. Capacitance: 5.0Ah(10 Ω, 4h/D, 0.9V Cut Off, 20±2°C,(55±20)%R.H)

7. Storage Characteristics

After 6 Months Storage, 90%Capacitance of Fresh Cells

After 12 Months Storage, 85% Capacitance of Fresh Cells

8. Electrical Characteristics

(Test environment: 20±2°C,(55±20)%R.H,Load Resistance:**3.9ohms**,Measure Time:**0.3s**)

	OCV(V)	CCV(V)	Short-circuit Current(A)
Initial	1.62-1.730	≥1.51	≥6
After 12 Months	≥1.56	≥1.42	≥4.5

9. Specifications (20±2°C,(55±20)%R.H)

Load	Discharge Mode	End Voltage	Initial	After 12 Months Storage	Application
600mA	2h/d	0.9V	≥3.5h	≥3h	Portable stereo
2.2Ω	4min/h,8h/d	0.9V	≥320min	≥275min	Portable lighting
2.2Ω	4min/15m,8h/d	0.9V	≥360min	≥310min	Portable lighting

10Ω	4h/d	0.9V	≥42h	≥36h	Radio
2.2Ω	1h/d	0.8V	≥8.5h	≥7.3h	Toy

10. Safety test

Test item	Test method	Test pcs	Requirements
Partial use	See IEC60086-2 6.2.2.1	5	No leakage No fire No explosion
Transportation shock	See IEC60086-2 6.2.2.2	5	No leakage No fire No explosion
Transportation vibration	See IEC60086-2 6.2.2.3	5	No leakage No fire No explosion
Climatic	See IEC60086-2 6.2.2.4	5	No fire No explosion
Incorrect installation	See IEC60086-2 6.3.2.1	20	No fire No explosion
External short circuit	See IEC60086-2 6.3.2.2	5	No fire No explosion
Over-discharge	See IEC60086-2 6.3.2.3	20	No fire No explosion
Free fall	See IEC60086-2 6.3.2.4	5	No fire No explosion

11. Expiry Period: 3 Years

12. Battery Dimension (Unit: mm)

/	Min	Max
Φ	32.3	34.2
A	59.5	61.5
C	18.0	--
F	--	9.5
G	1.5	--

