

Power-Xtra R03/AAA Size Zinc Manganese Battery

SPECIFICATIONS OF SINGLE CELL

Type Zinc Manganese Battery
 Model R03/AAA

TECHNICAL INFORMATION

Item	Specifications	Conditions
Nominal Voltage	1.5V	
Typical Capacity	450 mAh	75Ω load resistance, discharge 4 hours per day at 20+/-2°C, end-point voltage 0.9V
Typical Weight	7 gr	
Recommended Storage Temperature Range	20+/-2°C	3years after delivery under proper storage conditions
Recommended Operating Temperature Range	-18° C to 55°	
Shelf Life	3-5 Years	Recommended Storage Range : 20+/-2°C Recommended Humidity Range : 65+/-20%RH
Electrical performance		Load Resistance (±0.5%) 3.9Ω, Time: 0.3s, Temperature: 20±2°C.)
Mercury & Cadmium	0.00%	

SERVICE LIFE

Condition	O.C.V (V)	C.C.V (V)	
≤3 months after delivery	≥1.62	≥1.40	MIL-STD105E, II, AQL=0.65
leave with for 12 Months	≥1.55	≥1.35	

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SERVICE LIFE

(Discharge Method)			(Minimum Average Duration)	
Load Resistance	Discharge mode	Cutoff Voltage (V)	≤ 30 days after delivery	Normal Temperature for 12 Months
5.1Ω	4m/h,8h/d	0.9V	80min	≥90%
5.1Ω	1 h/d	0.8V	1.2h	≥90%
50mA	1h/11h ,24h/d	0.9V	8.0h	≥90%
24Ω	15s/min,24 h/d	1.0V	7h	≥90%
75Ω	4h/d	0.9V	25h	≥90%
3.9Ω(REF)	24h/d	0.9V	35 min	≥90%

LEAKAGE RESISTANCE

Item	Condition	Test Duration	Result	Accept Level
High heat and humidity storage test	60 ±2°C Low 90% RH	30days	No leakage	N=5, Ac=0,Re=1

IMAGE

