Individual Product Specifications for Alkaline Battery

Model : LR6XA (size AA)

Panasonic do Brasil Limitada

13th/September/2016

PANABRAS					
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Panasonic do Brasil Limitada

Individual Product Specifications

LR6XA Power Alkaline

Alkaline Battery size (AA)

Reference IEC 60086-2

Designation: LR6
 Nominal Voltage: 1.5 V
 Product mass: 22,5 g

4 Performance

4.1 OCV shall satisfy Table 1 after the test mentioned in 8 (Testing).

4.2 Minimum Average Duration (MAD): The MAD shall meet the value mentioned in Table 1 or more, after the test of 8 (Testing).

4.3 Resistance to leakage shall satisfy Table 1 after the test of 8 (Testing).

Table 1 : Performance

		Testing condition			Panabras spec.		
		Load (Ω)	Discharging time per day	End point (V)	Unit	Initial	20 °C After 12 months
OCV b)	-	-	_	V	Max.1.65	Max.1.65	
					Min. (1.54)	Min. (1.53)	
		43	4hours	0.9	h	73	67
		24	15sec/min/8h c)	1.0	h	38	36
l N	Iinimum	3.9	1hour	0.8	h	5.8	5.2
Average Duration (MAD)		3.3	4min/h	0.9	Min	252	240
		100mA	1 hour	0.9	h	19	18
		250mA	1hour	0.9	h	6.2	5.9
		1500-650mW	2sp30s*10c	1.05	pulses	57	46
		1000mA	10sec/min/1h d)	0.9	pulses	344	282
S	Over					There shall be neither ev	idence of electrolyte
Resistance t Leakage		Cf. Table 2			leakage on the surface of any battery nor		
	discharge				deformation beyond the specified dimension.		
	Under High					There shall be neither ev	
Re L	temperature	I C.I. Table /			leakage on the surface of any battery nor		
	•				deformation beyond the specified dimension.		

Note a) Expiration date is indicated to the drawing of artistic designs.

The value with parenthesis is informative.

b) "Max." and "Min." in column of OCV mean maximum and minimum values.

The value with parenthesis is informative.

c) The specified load shall be applied across the battery for 15 seconds on, 45 seconds off per minute. It is repeated for 8 hours per day.

d) The specified current drain shall be applied across the battery for 10 seconds on, 50 seconds off per minute. It is repeated for 1 hour per day.

It can be added to the cumulative discharging frequency when the discharge for 10 seconds is completed.

5 Dimensions: As per attached Figure 1.

6 Terminals: As per attached Figure 1. (+) Cap, (-) Base

There shall be no rust or deformation, which will cause hindrance on use.

7 Appearance: There shall be no stain, scratch and deformation which will cause hindrance on use.

The marking on surface shall be clear.



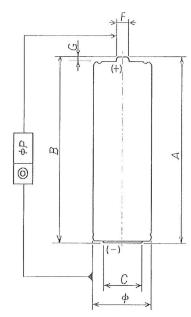
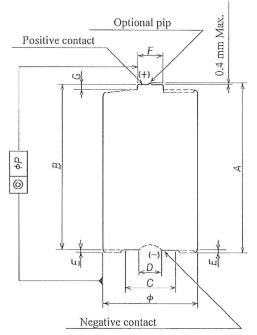


Figure 1 LR6



Reference drawing: IEC 60086 - 2

		Chie
	Max.	Min.
A	50.5	(49.2)
В	-	49.2
C	-	7.0
D	(4.0)	_
E	0.5	0
F	5.5	(4.2)
G	·—	1.0
Ø	14.5	13.7
ϕP	0.5	
Pip	0.4	

Unit: mm

- Note 1 Numerical value with parentheses: informative Note 2 The symbols of dimensions are as following.
 - A : Overall height
 - B: Distance between (+) and (-) terminals, excluding pip.
 - C: Outer diameter of (-) flat contact surface
 - D : Diameter of concave part of central (–) terminal.
 (This model doesn't have this part on the surface of (–) terminal.)
 - E: Recess of (-) flat contact surface from outside cover. (E of this model is zero. Because this model has the projected (-) contact.)
 - F: Diameter of the specified projection of (+) terminal.
 - G: Projected height of (+) contact, excluding pip.
 - ϕ : Diameter of the battery.
 - ϕP : Concentricity of the positive contact
 - Pip: Height of pip. (This model doesn't have pip.)
- Note 3 The cylindrical surface is insulated from the contacts.
- Note 4 The negative contact "C" may be flat over the whole area.
- Note 5 The profile over the dotted line sections is not specified.

Individual Product Specifications						
LR6XA Power Alkaline			aline	Alkaline Battery size (AA)		
(60	± 15) ting m	%. However, du		nperature is 20 ± 2 °C and the relative humidity shall be eriod only, it may be 20 ± 5 °C.		
Open circuit voltage		After more than 8 hours storage under the condition specified in 8.1, measure with a voltmeter mentioned below at the same condition. The accuracy of the measuring equipment shall be $\leq 0.25\%$ and the precision shall be $\leq 50\%$ of the value of the last significant digit. The internal resistance of the measuring instrument shall be $\geq 1M\Omega$.				
Service life		Battery shall be discharged as specified condition until the voltage on load drops for the first time below the specified end point. (service life under the intermittent discharge should be accumulated the time on load) a) Commencement: After more than 8 hours storage under the condition specified in 8.1. b) Discharging method: Based on Table 1 c) Calculation of average service life: Test 5 batteries and calculate the average.				
Resistance to leakage at ov discharge		After usual discharging test, the discharge is continued until voltage of battery drops to 0.7 V for the fist time.				
Resistance to leakage at hig temperature		The test battery should be stored for 30 days under the temperature at 45 ± 2 °C and relative humidity below 70 %(RH).				
Dimensions		capability and r	ninimum division 0.05 mm.	er caliper calibrated having below 150 mm of measuring		
Terminal Appearance		Visual Observa Visual Observa				
	Marking Specified as the drawing of designs.					
10 Manufacturer Panasonic do Brasil Limitada, [Abbreviated name: PANABRAS]						
Stipulation	15/Ja	nuary/2015	Newly produced.			
			Individual Product	Charifications		

