XTRA-POWER (Wholly Owned By Strongwill Ltd.)

Product Specifications — Model No. : LR6

1. APPLICABILITY

This specification is applicable to XTRA-POWER Alkaline Battery, LR6 (Mercury Free) .

2. GENERAL

2.1	Type designation	:	LR6
2.2	Nominal voltage	:	1.5V
2.3	Shape and dimension	:	Refer to Drawing 1
2.4	Typical weight	:	24g
2.5	Shelf life	:	5 years
2.6	Date code	:	Unless otherwise specified, every battery will carry an expiry date code for 5 years. (e.g. a battery manufactured on January 2000 will carry an expiry code of 01-2005.)
2.7	Jacket	:	Foil jacket
2.8	Heavy Metal Content	:	Hg<1ppm, Cd<10ppm, Pb<100ppm
2.9	Capacity	:	2600mAH

3. APPEARANCE

There shall be no dirt, scratch or deformation detrimental to practical service in appearance.

4. TEST METHOD

4.1 Electrical

Method of sampling	:	ISO2859 level II single sampling normal inspection.
Voltmeter	:	Digital Voltmeter with the precision of 1mV (internal resistance not less than 1 Megohm)
Test temperature	:	20 ± 2°C

4.2 Off Load Voltage

At shipping	12 months after manufactured
1.58-1.65V	Above 1.50V

4.3 On Load Voltage

Initial	12 months after manufactured
Above 1.35V	Above 1.30V

Load resistance: 5 ohm ± 0.5% (measure time : 0.3 seconds)

5. SERVICE OUTPUT

5.1 Test method

(1) The resistance of external discharge circuit shall be as specified plus or minus 0.5%.

(2) The duration of discharge time periods shall be as specified plus or minus 1%.

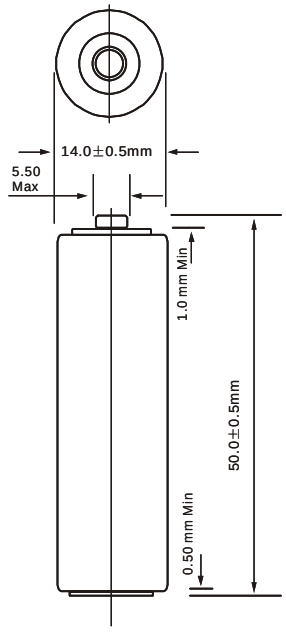
(3) Storage shall be at 20 ± 2°C, 65 ± 20%RH and discharge tests shall be at 20 ± 2°C, 65 ± 20%RH.

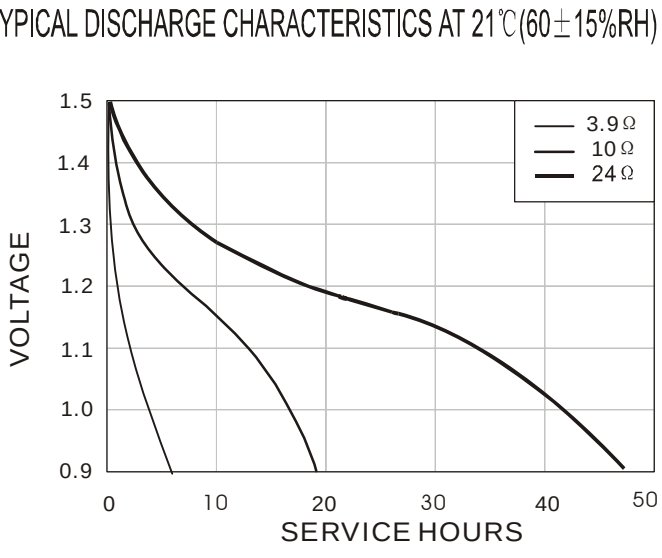
5.2 Property (Continuous discharge)

Resistance	Service Output		
	Initial		12 months after manufactured
	Minimum Average	Typical	Typical
3.9Ω (end volt = 0.9V)	5.5H	6.0H	5.0H
10Ω (end volt = 0.9V)	17.5H	18.5H	17.5H

Test temperature : 20±2°C H : Hour

Drawing 1: Dimensions of Battery (LR6)





5.3 Operating temperature: -20°C to 54°C (65± 20%RH)

5.4 Storage temperature: -30°C to 55°C (65± 20%RH)

6. ELECTROLYTE LEAKAGE

6.1 Leakage on arrival at warehouse.
Leakage shall be checked with naked eye.

6.2 Leakage at room temperature
After storing for 12 months at 20 ± 15°C, 65 ± 15%RH, no leakage shall be observed with the naked eye; and no bulging exceeding the maximum dimensions shall result.

6.3 Leakage of over discharge
After loading with 10Ω continuously for 48 hours at 20 ± 2°C, 65 ± 15%RH, no leakage shall be observed with the naked eye; and no bulging exceeding the maximum dimensions shall result.

6.4 Leakage at high temperature
After storing for 7 days at 65 ± 2°C, no leakage shall be observed with the naked eye; and no bulging exceeding the maximum dimensions shall result.

7. QUALITY ASSURANCE

DESCRIPTION	ACCEPT PERCENTAGE
Battery dimensions	≤0.02%
Appearance	≤0.02%
Off load voltage	≤0.02%
Heavy Metal Content	Note 2.8
Service Output	Note 1
Leakage 6.1	≤0.01% (Note 2)

Note 1 : Acceptance/rejection in accordance with IEC publication (1993) 86-1 Sub-clause 8.B

8. PACKAGING

Packaging shall be a form agreed by both parties.

PRECAUTION & HANDLING

(1) Do not disassemble or short-circuit batteries.
(2) Do not recharge batteries.
(3) Do not dispose of batteries in fire.
(4) Do not allow metal objects to contact the battery terminals.
(5) Do not mix with used or other battery type (such as alkaline with carbon zinc).
(6) Do not solder the batteries directly. If soldering or welding connection to the battery is required, consult our engineer for proper methods.
(7) Do not over-discharge batteries. Force discharging batteries by external power source in a series may cause explosion.
(8) To install or remove batteries, follow the appliance manufacturer's instructions.
(9) Keep battery away from small children. If swallowed, consult a physician at once.
(10) Remove batteries from device when it is not in use.

STORAGE

(1) Store in cool, dry place before use.
(2) Do not keep batteries at temperature of 55℃ or above.
(3) Do not keep batteries at relative humidity of 85% or above.