

Applicability

This specification is applicable to DiVolta Alkaline Battery, DA-6LR61 (Mercury and Cadmium Free).

1. GENERAL

2.1	Type designation	:	DA-6LR61
2.2	Nominal voltage	:	9V
2.3	Shape and dimension	:	Refer to Drawing 1
2.4	Typical weight	:	45g
2.5	Shelf life	:	84 months
2.6	Date code	:	Unless otherwise specified, every battery will carry an expiry date code for 84 months. (e.g. a battery manufactured on January 2005 will carry an expiry code of 01-2012.)
2.7	Jacket	:	Foil jacket

3. APPEARANCE

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

4. ELECTRICAL CHARACTERISTICS (180Ω, 0.3S, 20±2°C)

/		OCV(V)	CCV(V)	SC(A) <i>(reference)</i>
Initial	Min	9.2	8.8	2.7
	Normal	9.5	9.2	4.0
Storage 1 year	Min	9.0	8.5	1.8
	Normal	9.3	9.0	3.0

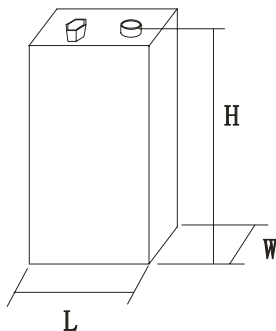
Note: storage condition: 20±5°C, RH: 45%-75%

5. SERVICE OUTPUT

Load		35mA	180Ω	270Ω	620Ω
Test mode		24h/d	30min/d	1h/d	2h/d
end voltage		5.4V	4.8V	5.4V	5.4V
Initial	MAD	13.0 h	11.5h	17.0h	43 h
	Normal	14.5 h	13.0h	18.5h	46h
Storage 1 year	MAD	11.0 h	10.0h	15.5h	41h
	Normal	13.0 h	11.5h	17.0h	43h

Note: storage condition: $20\pm 5^{\circ}\text{C}$, RH: 45%-75%

Drawing 1: Dimensions of Battery (6LR61)



/	Min (mm)	Max (mm)
L	24.5	26.5
W	15.5	17.5
H	46.5	48.5

6. ELECTROLYTE LEAKAGE

(1) over discharge leakage test

samples: 9pcs

test conditions: $20\pm 2^{\circ}\text{C}$, RH $60\pm 15\%$, 180Ω continuous discharge 48h

requirement: no visible leakage and overall height no higher 0.2mm than max height (48.5).

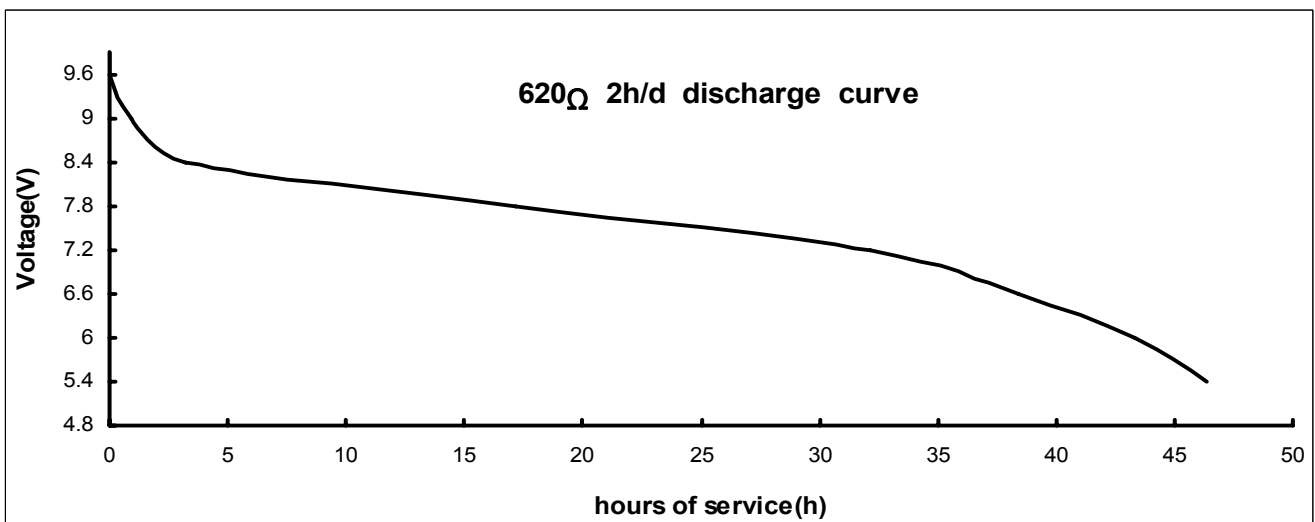
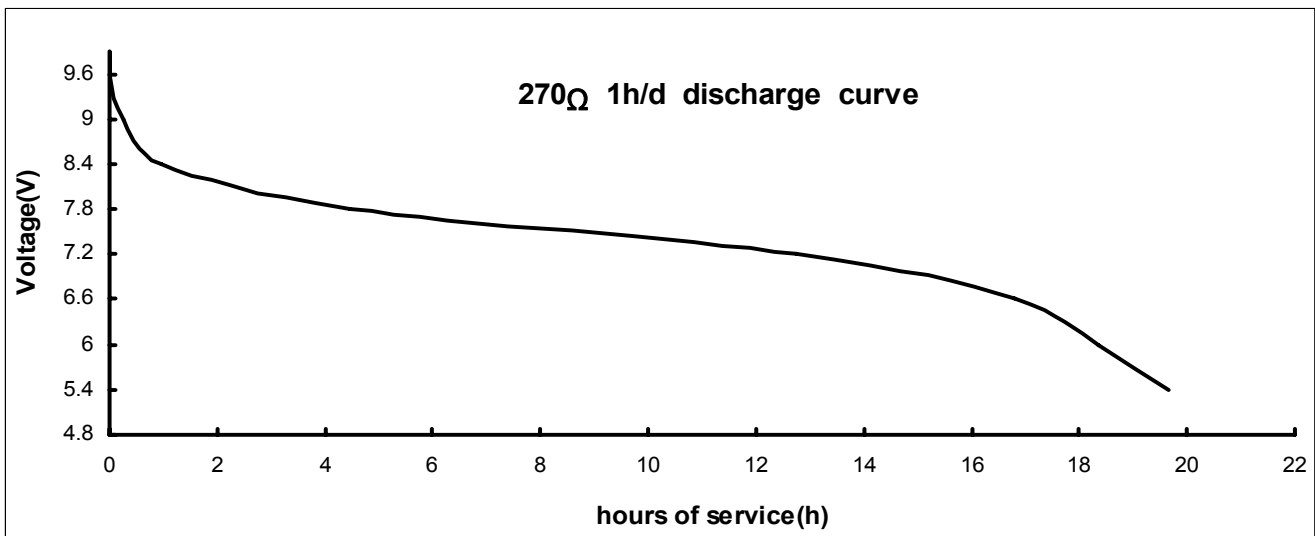
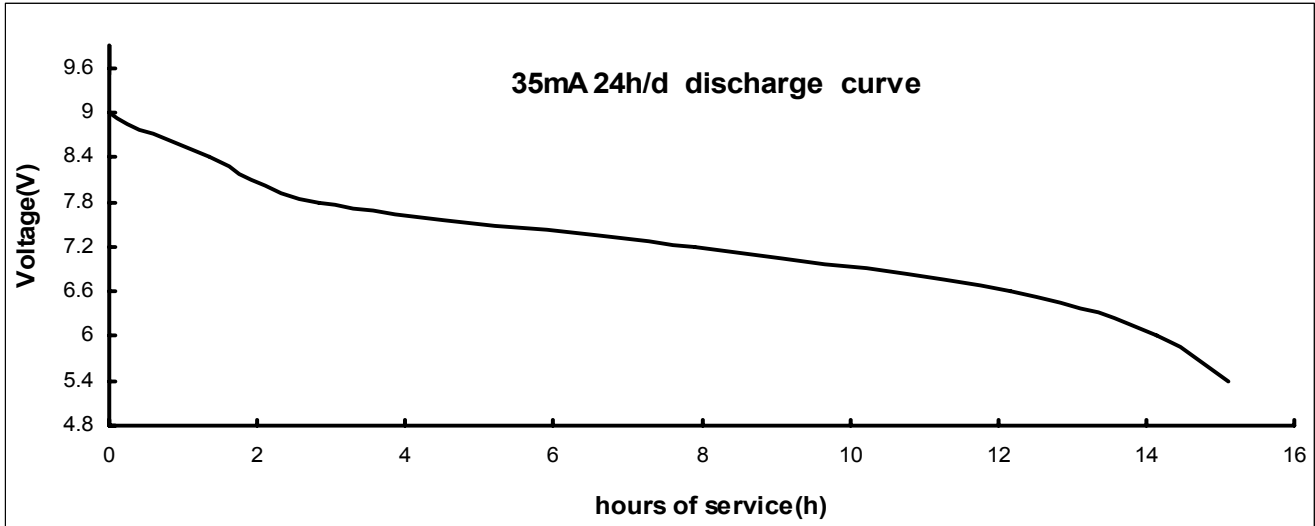
criterion: 0/9

(2) high temperature leakage test

samples: 40pcs

test conditions: store 20 days under $60\pm 2^{\circ}\text{C}$ & RH $90\pm 5\%$, then store 4~24 h under $20\pm 2^{\circ}\text{C}$ & RH $60\pm 15\%$.

requirement: no visible leakage and overall height no higher 0.2mm than max height (48.5).



7. SECURITY CHARACTERISTICS

- (1) short-circuit explosion-proof characteristics
samples: 10pcs
test conditions: 24h short-circuit under $20\pm 2^{\circ}\text{C}$, RH $60\pm 15\%$.
requirement: negative terminal no departure from battery body.
criterion: 0/10

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°C or above.
- (3) Do not keep batteries at relative humidity of 85 % or above.