

1. APPLICABILITY

This specification is applicable to DiVolta Alkaline Battery, DA-LR6 Size AA (Mercury and Cadmium Free).

2. GENERAL

| | | | |
|-----|---------------------|---|---|
| 2.1 | Type designation | : | DA-LR6 |
| 2.2 | Nominal voltage | : | 1.5V |
| 2.3 | Shape and dimension | : | Refer to Drawing 1 |
| 2.4 | Typical weight | : | 24±1g |
| 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 01-12.) |
| 2.7 | Jacket | : | Foil jacket |

3. APPEARANCE

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

4. ELECTRICAL CHARACTERISTICS (3.9Ω, 0.3S, 20±2°C)

| / | | OCV(V) | CCV(V) | S.C.(A) <i>(reference)</i> |
|-------------------|--------|--------|--------|-------------------------------|
| Initial | Min | 1.57 | 1.40 | 7.5 |
| | Normal | 1.60 | 1.46 | 9.0 |
| Storage 1 year | Min | 1.55 | 1.37 | 5.5 |
| | Normal | 1.57 | 1.42 | 7.0 |

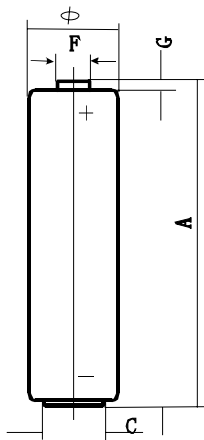
Note: storage condition: 20±5°C, RH: 45%-75%

5. SERVICE OUTPUT

| Load | 10Ω | 1.8Ω | 3.9Ω | 10Ω | 43Ω | |
|-------------------|--------|---------|-----------|--------|-------|-------|
| Test mode | 24h/d | 15s/min | 1h/d | 1h/d | 4h/d | |
| end voltage | 0.9V | 0.9V | 0.8V | 0.9V | 0.9V | |
| Initial | MAD | 18.5 h | 580cycles | 400min | 18.2h | 87 h |
| | Normal | 19.5 h | 640cycles | 430min | 19.3h | 92.5h |
| Storage 1 year | MAD | 17.0 h | 470cycles | 380min | 17.2h | 84 h |
| | Normal | 18.5 h | 540cycles | 410min | 18.3h | 89h |

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

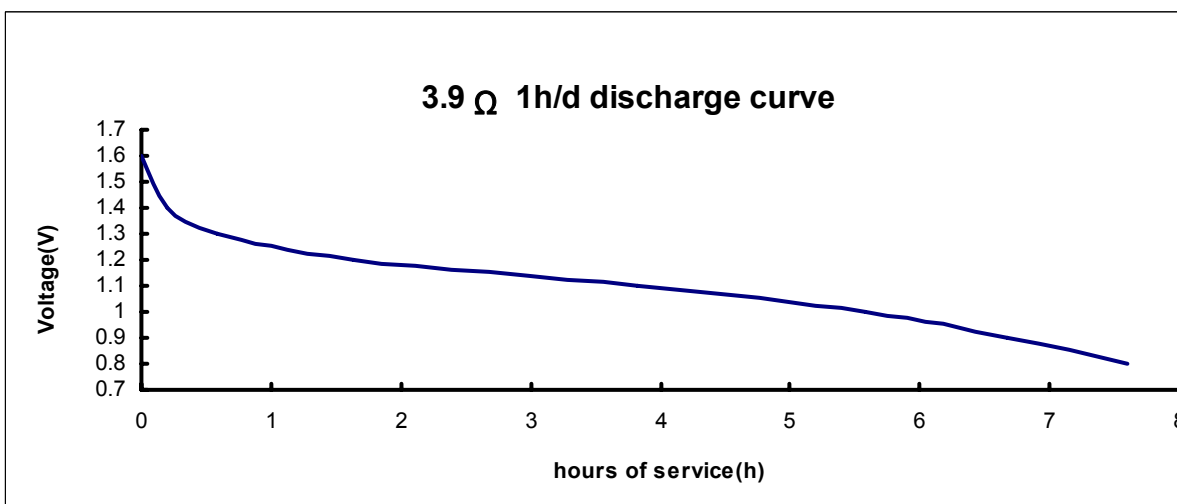
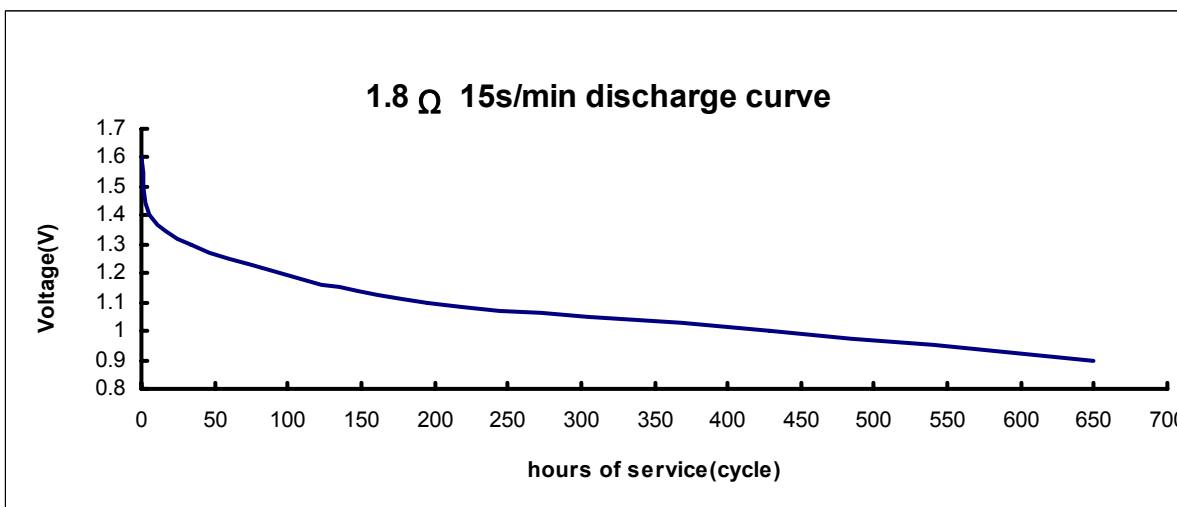
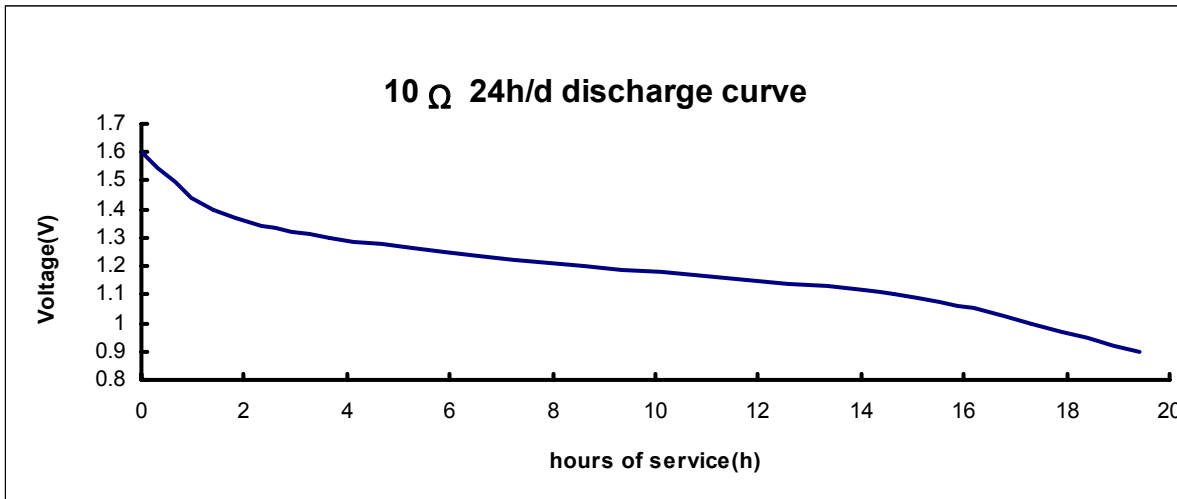
Drawing 1: Dimensions of Battery (LR6)



| / | Min (mm) | Max (mm) |
|---|----------|----------|
| Φ | 13.9 | 14.4 |
| A | 49.9 | 50.4 |
| C | 9.0 | 9.4 |
| F | 5.0 | 5.4 |
| G | 1.2 | 1.7 |

6. ELECTROLYTE LEAKAGE

- (1) over discharge leakage test
samples: 9pcs
test conditions: $20\pm 2^{\circ}\text{C}$, RH $60\pm 15\%$, 10Ω continuous discharge 48h
requirement: no visible leakage and overall height no higher 0.2mm than max height (50.5).
criterion: 0/9
- (2) high temperature leakage test
samples: 60pcs
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 (50.5) .



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
- (2) recharge explosion-proof characteristics
samples: 10pcs
test conditions: $20\pm 2^{\circ}\text{C}$, $60\pm 15\%$, recharge 24h with 80mA current.
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.