

### Applicability

This specification is applicable to DiVolta Alkaline Battery, DA-LR14 Size C (Mercury and Cadmium Free).

### 1. GENERAL

- 2.1 Type designation : DA-LR14  
2.2 Nominal voltage : 1.5V  
2.3 Shape and dimension : Refer to Drawing 1  
2.4 Typical weight :  $65 \pm 1$ g  
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 (1.0Ω, 0.3S, 20±2°C)

/		OCV(V)	CCV(V)	SC(A) <i>(reference)</i>
Initial	Min	1.57	1.30	7.0
	Normal	1.60	1.50	12.0
Storage 1 year	Min	1.55	1.20	5.5
	Normal	1.57	1.35	9.0

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

## Product Specifications

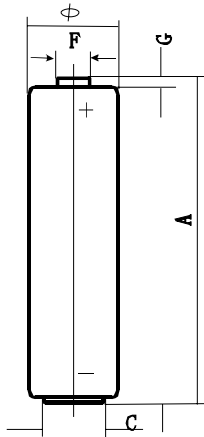
Model No.: DA-LR14

### 5. SERVICE OUTPUT

Load		3.9Ω	3.9Ω	3.9Ω	6.8Ω	20Ω
Test mode		24h/d	4min/h,8h/d	1h/d	1h/d	4h/d
end voltage		0.9V	0.9V	0.8V	0.9V	0.9V
Initial	MAD	17.0 h	18.0h	20h	34.0 h	115 h
	Normal	18.0 h	19.0h	22h	36.0 h	118h
Storage 1 year	MAD	15.5 h	16.5h	18h	32.0 h	110 h
	Normal	16.5 h	17.5h	19.5h	34.5 h	115h

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

### Drawing 1: Dimensions of Battery ( LR14 )



/	Min (mm)	Max (mm)
Φ	25.0	26.0
A	49.0	50.0
C	18.5	19.5
F	6.0	7.0
G	1.6	2.0

### 6. ELECTROLYTE LEAKAGE

(1) over discharge leakage test

samples: 9pcs

test conditions: 20±2°C, RH 60±15%, 3.9Ω continuous discharge 48h

requirement: no visible leakage and overall height no higher 0.2mm than max height (50.0).

criterion: 0/9

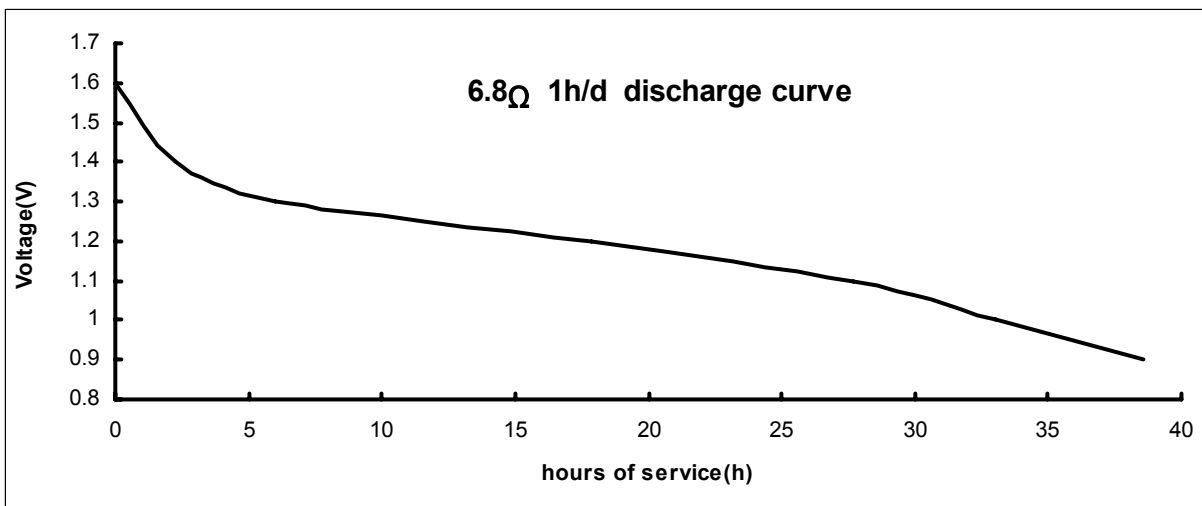
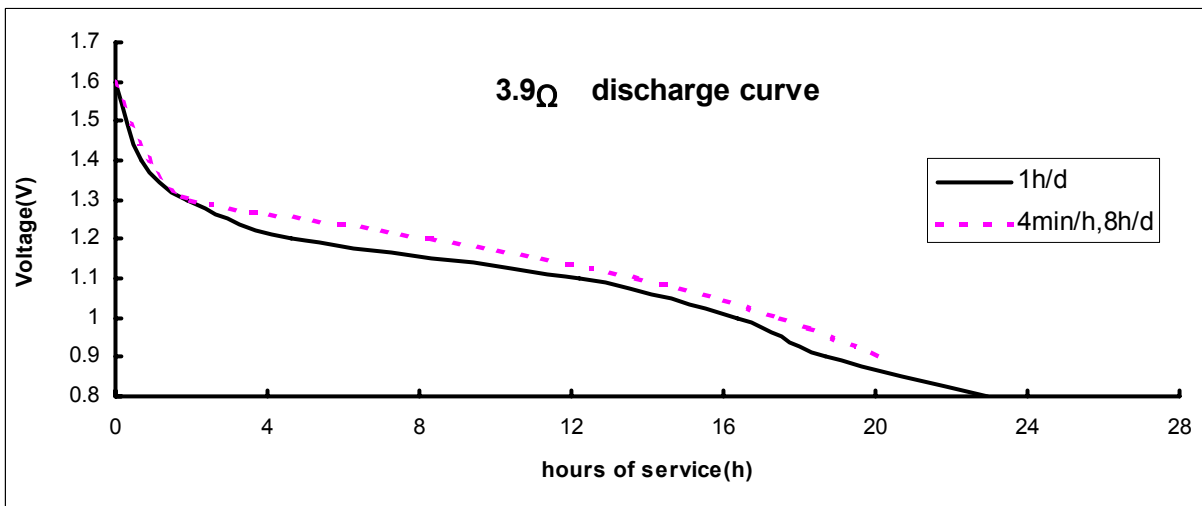
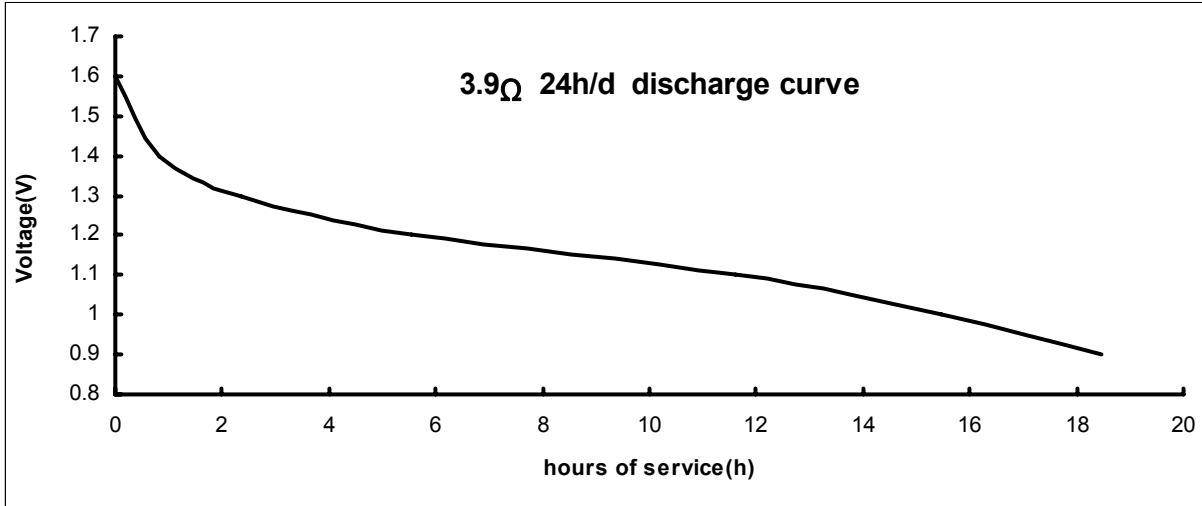
(2) high temperature leakage test

samples: 40pcs

test conditions: store 20 days under 60±2°C & RH 90±5%, then store 4~24 h

under 20±2°C & RH 60±15%.

requirement: no visible leakage and overall height no higher 0.2mm than max height (50.0) .



### 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 400mA 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  $45^{\circ}\text{C}$  or above.
- (3) Do not keep batteries at relative humidity of 75 % or above.