

## SPECIFICATION APPROVAL SHEET

### XCell Alkaline 23GA

**1. Resume** Model: 23A / OTHER: L1028, A23, MN21, MS21, V23GA, LR23A

**2. Chemical System** Hg-free Alkaline Zn/ MnO<sub>2</sub> Battery (-) Zn | KOH | MnO<sub>2</sub> (+) 0%Hg

**3. Nominal Voltage** 12.0volt

**4. Average Weight** 7.85g

**5. Nominal Capacity** 55mAh Continuous discharge at 20±2°C under load 20kΩ to EPV 6.0V

### 6. Electrical Performance

(Conditions: 1kΩ, ±0.5%, 0.3s, 20±2°C, tested within 30days after delivery)

	No-load Voltage (V)	Load Voltage (V)	Acceptance Standard
New battery	12.3	11.5	MIL-STD105E, II, AQL=0.4
Storage under normal for 12 months	12.1	11.0	

### 7. Discharge Performance

(Conditions: 20±2°C, tested within 30days after delivery)

	Discharge Conditions			Minimum Average Duration	
	Discharge load	Discharge duration	Termination voltage (V)	New battery	Storage under normal temperature for 12 months
Acceptance discharge	20KΩ continuous discharge	24h	6.0	95h	85h
	1KΩ pulse discharge	Discharge for 1 second and rest for 4 seconds, 24h/day	6.0	18000 times	17000 times

(1) Test nine batteries.

(2) Calculate the average discharge duration without the exclusion of any result.

(3) If the average is equal to or greater than the specified figure and no more than one battery has a service output of less than 80% of the specified figure, the battery are considered to conform to service output.

(4) One re-test is allowed to confirm the previous result.

### 8. Anti-leakage Performance

Item	Conditions	Over-discharge Time	Result	Acceptance Standard
Over-discharge anti-leakage performance	Continuous discharge under load 20kΩ, 20±2°C, 65±20% RH	Over-discharge for 48h after discharge to 6.0V	The battery has no visible leakage and explosion	N=9, Ac=0, Re=1

### 9. Marking On Battery

Model	23A;
Brand of Manufacturer	XCell
Voltage	12V
Polarity Marking	“+“ “-“
Others	Caution

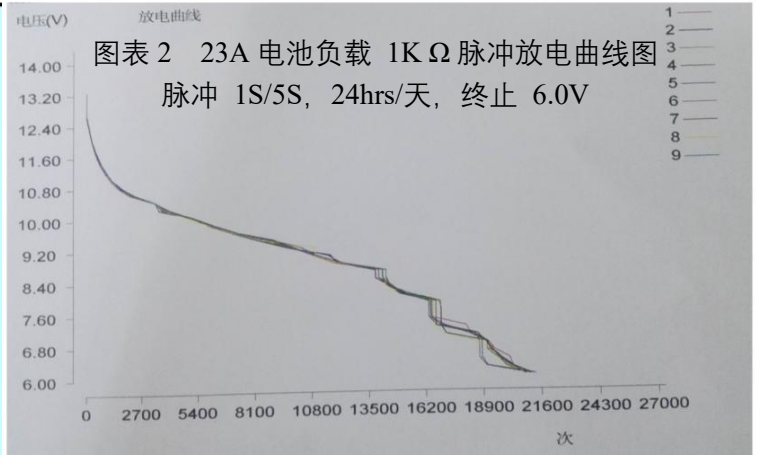
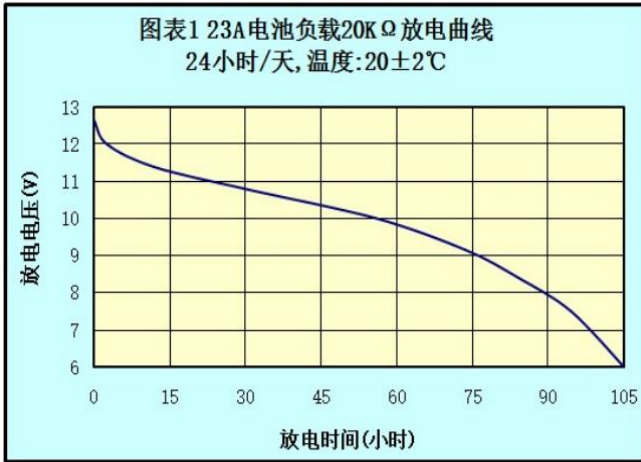
## 10. Attention

Do not charge the battery, which may lead to battery leakage or danger.  
The battery should be installed correctly to prevent incorrect installation.  
Do not short-circuit the battery, heat it, put it into fire or attempt to disassemble it.

## 11. Storage Period

It can be stored for 1 year under normal temperature and suitable environment.

## 12. Discharge Characteristics



## 13. Battery Dimensions

