

**GBT**

# **BAUHAUS PROFI-DEPOT ALKALINE A23 BP2**

**TECHNICAL SPECIFICATION**

## 1 Scope

This specification is applicable to Bauhaus Profi-Depot high voltage alkaline mercury-free stack battery: 23A.

## 2 Designations

NEW LEADER	IEC	ANSI	JIS	OTHERS
23A	—	1811A	—	A23, MN21, L1028

## 3 Normative references

GB/T 8897.1—2013 1 :	IEC 60086-1:2011, MOD
GB/T 8897.2—2013 2 :	IEC 60086-2:2011, MOD
GB/T 8897.3—2013 3 :	IEC 60086-3:2011, MOD
GB 8897.5—2013 5 :	IEC 60086-5:2011, IDT

## 4 Chemical system

Zinc-Manganese dioxide (Potassium hydroxide electrolyte)

## 5 Nominal voltage

12 V

## 6 Approximate weight

8.3 g

## 7 Typical capacity

53 mAh  $\pm$  5%

Conditions: Rated at 20K $\Omega$  at (20 $\pm$ 2) $^{\circ}$ C, continuous discharging to the End-point Voltage of 6.0V.

## 8 Electrical characteristics

Items	Resistance	Initial (Within 30 days after delivery)	After 12 months	Test conditions
Off-load voltage	—	$\geq$ 12.30V	$\geq$ 12.10V	Temp. : (20 $\pm$ 2) $^{\circ}$ C
On-load voltage	20 K $\Omega$	$\geq$ 12.10V	$\geq$ 12.00V	Temp. : (20 $\pm$ 2) $^{\circ}$ C

## 9 Discharge performance

Discharge conditions				Minimum average duration	
Resistance	Daily period	End-point voltage	Environmental conditions	Initial	After 12 months
20 K $\Omega$	24 h	6.0 V	Temp. : (20 $\pm$ 2) $^{\circ}$ C RH : (55 $\pm$ 20)%	117 h	105 h

## 10 Safety characteristics

Test item	Conditions	Period	Requirements	Acceptance standard
External short circuit	Temp. : (20 $\pm$ 5) $^{\circ}$ C	24 h	There shall be no explosion of battery	N=9, Ac=0, Re=1

## 11 Marking

The following markings will be printed, stamped or impressed on the body of the battery:

- (1) Designation 23A
- (2) Polarity marking : + and - +
- (3) Nominal voltage : 12V
- (4) Manufacturer trademark : **Bauhaus Profi-Depot**
- (5) Mercury, lead and cadmium content : 0.% Hg, Pb, Cd
- (6) Country of origin : MADE IN CHINA

## 12 Storage requirements

Batteries shall be stored in well-ventilated, dry and cool conditions. For normal storage, the temperature should be between 10 $^{\circ}$ C and 25 $^{\circ}$ C and should never exceed 30 $^{\circ}$ C, the relative humidity should be at (55 $\pm$ 20)%. High temperature or high humidity may cause deterioration of the battery performance or surface corrosion.

## 13 Safety precautions during handling of batteries

- (1) Always insert batteries correctly with regard to the polarities (+ and -) marked on the battery and the equipment. Batteries which are incorrectly placed into equipment may be short-circuited, or charged. This can result in a rapid temperature rise causing leakage, explosion and may cause personal injury.

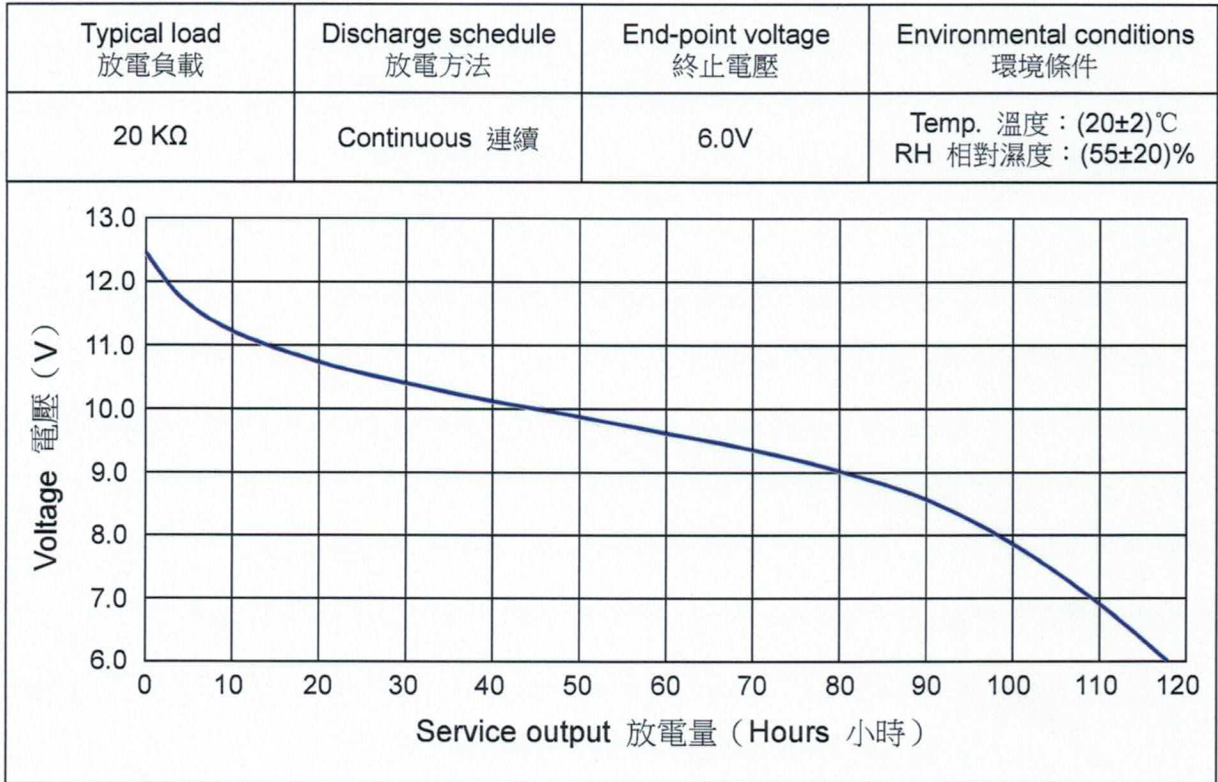


- (2) Batteries should not be short-circuited, heated and thrown into fire.
- (3) Do not charge batteries. Attempting to charge a non-rechargeable battery may cause internal gas and/or heat generation resulting in leakage, explosion and may cause personal injury.
- (4) Do not mix old and new batteries or batteries of different types or brands. When replacing batteries, replace all of them at the same time with new batteries of the same brand and type. When batteries of different brand or type are used together, or new and old batteries are used together, some batteries may be over-discharged due to a difference of voltage or capacity. This can result in leakage, explosion and may cause personal injury.
- (5) Exhausted batteries should be immediately removed from equipment and properly disposed of. When discharged batteries are kept in the equipment for a long time, electrolyte leakage may occur causing damage to the appliance and/or personal injury.
- (6) Do not weld or solder directly to batteries. The heat from welding or soldering directly to a battery may cause internal short-circuiting resulting in leakage, explosion and may cause personal injury.
- (7) Do not dismantle batteries. When a battery is dismantled or taken apart, contact with the components can be harmful and may cause personal injury.
- (8) Store unused batteries in their original packaging away from metal objects. If already unpacked, do not mix or jumble batteries to avoid them short-circuiting with each other.
- (9) Keep batteries out of the reach of children to prevent swallow. In case of ingestion of a cell or a battery, the person involved should seek medical assistance promptly.

## 14 Warranty period

12 months

15 Discharge curve 放電曲線



16 Battery dimensions & structure 電池尺寸及結構

