



Specification Sheet ULHD6VSP and ULHD6VSC

**HEAVY DUTY ZINC CHLORIDE BATTERY  
ULHD6VSP and ULHD6VSC 6V LANTERN BATTERIES**

**1. Scope**

This specification defines the technical requirements for ULHD6VSP and ULHD6VSC super heavy duty battery.

**2. Purpose**

To assure that any ULHD6VSP and ULHD6VSC battery manufactured or procured by NABC will meet or exceed our customer's expectations.

**3. Reference Document**

IEC 60086-1:2000 *Primary Batteries-Part1: General*

IEC 60086-2:2000 *Primary Batteries-Part2: Physical and Electrical Specification*

**4. Chemical System**

Zinc Chloride

Mercury: Less than 1 ppm

**5. Nominal Voltage:** 6.0volt

**6. Average Weight:** 550.0g

**7. Jacket:** Plastic box

**8. Nominal Capacity**

3500mAh (Conditions: 8.2Ω continuously discharge at 20±2°C, end point voltage 3.60v)

**9. Electrical Characteristics**

	Off-load Voltage (v)	On-load Voltage (v)	Short circuit current	Acceptance Standard
Initial within 30 day	6.50	5.80	8.5	GB2828 commonly I sampling AQL=0.4
After 12 months	6.30	5.60	7.5	

conditions: 8.2Ω±0.5% load resistance, measuring time 0.3 seconds, temperature at 20±2°C,

The hairspring type ampere meter with ±0.5% accuracy (0.5level) shall be used.

**10. Service Time**(condition: test temp. 20±2°C, tested within 30 day after delivery)

Discharge Condition			IEC Standard	Average Minimum Discharge Time	
Discharge load	Daily discharge time	End Point Voltage (v)		Initial within 30 day	After 12mth at 20±2°C
110Ω	12h	3.6	155h	165h	148h
8.2Ω	30min	3.6	350min	560min	500min
9.1Ω	30m/h, 8h/d	3.6	270min	560min	500min
8.2Ω	24h	3.6	/	400min	/

Satisfaction Standard: 9 batteries will be tested for each discharging standard.

The result of the average discharging time from each discharging standard shall be equal to or more than the average minimum time requirement.

### **11. Leakage & Deform**

Discharge batteries until it meets the end points of the capacity data. Continue discharging at the same resistance and condition until batteries are 40% below the discharge end point. Batteries should not show any leakage or deformity through a visual inspection.

### **12. Caution for Use**

- (1) Since the battery is not manufactured to be rechargeable, there are risks of electrolyte leakage or damage to the device if the battery is charged.
- (2) Battery should be installed with its “+” and “-” in the correct position.
- (3) Short-circuiting, heating, disposing of fire and disassembling the battery are prohibited.
- (4) Avoid using old and new batteries together.

### **13. Shelf Life**

2 year after delivery under proper storage conditions.

### **14. Expiration Period Marking:**

- a. Production date and shelf life 2 years marked on the finished cell.
- b. For private label, will mark according to customer's requirements.

### **15. Battery Dimension (mm): SAME DIMENSIONS FOR BOTH THE SCREW TOP AND SPRING HEAD.**

