

**battery type:** Zinc-Air button cell (hearing aid battery)  
**battery size:** A312; PR41  
**chemical system:** Zinc - Air / Zn-O<sub>2</sub>

**Conditions**

**nominal voltage:** 1.45 V  
**open circuit voltage:** 1.35...1.45 V  
 1.35...1.45 V  
 new battery (pull off tap min. 30 minutes before measurement)  
 after 1 year storage at 20°C

**capacity** all measurements at 22 ± 2°C ambient; R.H 50%  
 typical: 180 mAh discharge at 1.5kΩ load; discharge 24hours/day  
 End Voltage (EV): 0.9V

**Discharge performance**

Hearing Aid	typ. 140 h min. 133 h	1.2mA background, 5mA 100ms pulse, once every 2h, 12h/d, EV: 1.05V (for QC measurement, without 5mA 100ms pulse)
IEC / ANSI Standard	typ. 84 h min. 80 h	2mA background, 10mA 100ms pulse, once every 2h, 12h/d, EV: 1.05V (for QC measurement, without 10mA 100ms pulse)
IEC / ANSI Wireless	typ. 53 h min. 50 h	2mA background 45min, 5mA 15min pulse, every h, 12h/d, EV: 1.1V (for QC measurement)

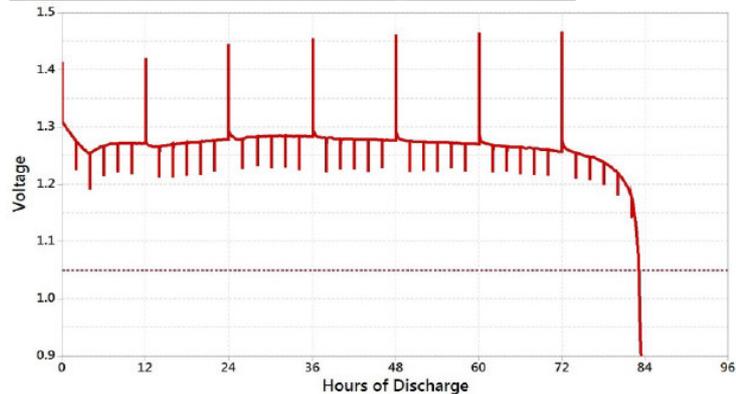
Test standards accord. IEC 60086-1, IEC 60086-2, ANSI C18.1M Parts 1&2

**impulse load voltage:** ≥ 1.1 V measured after 2s load  
 load resistance 200Ω

impedance: ≤ 6.5 Ω measured at 1kHz AC

**Discharge diagram:**

**Typical IEC/ANSI Standard Discharge Performance**

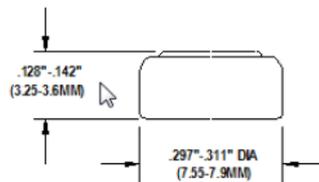


**shelf life:** 4 years under proper storage conditions (ta: ≤ 22°C; RH: 60 ± 15%)

**operating temperature range:** -10...50 °C

**mechanical specifications:**

dimensions:



Volume: 0.17 cm<sup>3</sup>

Nominal weight: 0.50 g

	<b>ANSMANN Specifications for model:</b>	<b>A312 Hearing Aid Battery Zinc-Air "mercury free"</b>
	data sheet no. / part no.	
	supplier no.	703619
	author / date	TG / 07.04.2021