

**battery type:** Lithium - Iron Disulfide  
**battery size:** IEC: FR6; ANSI: AA; L91; Mignon  
**chemical system:** Li-FeS<sub>2</sub>

**nominal voltage:** 1.5 V  
**open circuit voltage:** 1.78...1.83 V new battery  
 1.75...1.83 V after 1 year storage at 20°C

**capacity rated:** 3000 mAh all measurements at 20°C ambient discharge at 75ohms load; 24hours/day End Voltage (EV): 0.9V  
**minimum:** 2800 mAh discharge at 100mA const. current End Voltage (EV): 0.8V  
 2700 mAh discharge at 1000mA const. current End Voltage (EV): 0.8V

**typical service output (new batteries)**  
 ≥ 960 cycles discharge at 1000mA; EV: 0.9V discharge 10s/m 1h/d  
 ≥ 84 h load resistor: 43ohms; EV: 0.9V discharge 4h/d  
 ≥ 170 min discharge at 1000mA; EV: 0.9V discharge 24h/d  
 ≥ 20.3 h load resistor: 10ohms; EV: 0.9V discharge 24h/d  
 ≥ 12.0 h discharge at 250mA; EV: 0.9V discharge 1h/d

**internal resistance:** ≤ 350 mΩ at 1kHz, sine wave measurement full battery

**max. discharge current:** 2000 mA continuous  
 3000 mA pulse

**shelf life:** 10 years under proper storage conditions

**leakage resistance over discharge:** no leakage 10ohms continuous discharge for 48h; ta: 20°C; RH: 60±15%

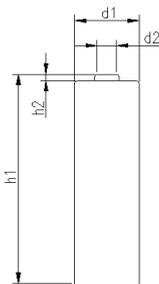
**high temperature:** no leakage store 20days at ta: 60°C; RH:90±5%

**ambient temperature range:** - 40...60 °C

**recommended storage conditions:** - 20....40 °C ambient temperature  
 45...75 % rel. humidity

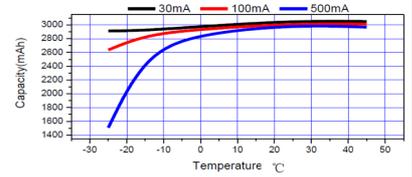
**mechanical specifications**

cell dimensions  
 diameter d1: 14.3 - 0.4 mm  
 diameter d2: 5.2 - 0.5 mm  
 height h1: 50.4 - 0.4 mm  
 height h2: 1.7 - 0.5 mm  
 weight: 15 ± 2 g

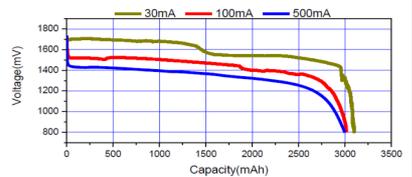


**Conditions**

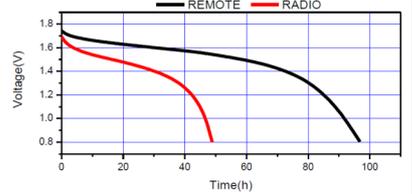
Temperature Effects on Capacity  
 Constant current discharge



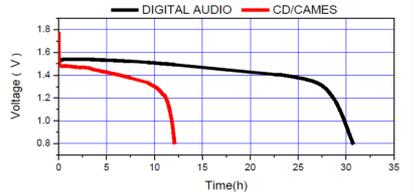
Discharge curve  
 Constant current discharge



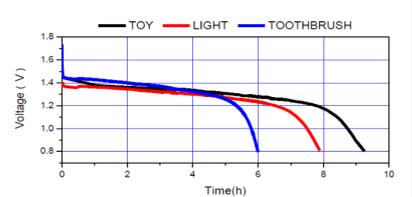
REMOTE RADIO  
 43ohm 4hrs/day 24ohm 15sec/min 8hrs



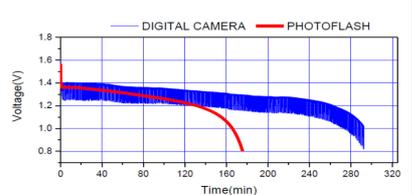
DIGITAL AUDIO CD/CAMES  
 250mA 1hr/day 100mA 1hr/day



TOOTHBRUSH PORTABLE LIGHTING TOY  
 500mA 2mm/13min 3.3ohm constant 3.9ohm 1hr/day



DIGITAL CAMERA PHOTOFLASH  
 1.5W/0.65W/2S/28S 1KmA 10S/min 1hr/Day



	<b>ANSMANN Specifications for model:</b>	<b>Lithium Extreme Battery AA - size</b>
	data sheet no. / part no.	
	s.n.	701801
	author / date	TG / 29.05.2024