



**THE DATASHEET OF  
5020012-XX**



**battery type:** Lithium primary battery  
**battery size:** CR-123A (CR-17345)  
**chemical system:** Manganese Dioxide Lithium Battery

**nominal voltage:** 3.0 V  
**open circuit voltage:** 3.0...3.5 V  
**closed circuit voltage:** 2.9...3.4 V

**conditions, remarks**  
 new battery  
 measured after 1s under load of 50Ω

**capacity** measurements at 23°C ambient; new battery

**rated:** 1600 mAh discharge at 1mA constant; 24hours/day  
 End Voltage (EV): 2.0V

**minimum:** 1500 mAh discharge at 10mA constant; continuous  
 End Voltage (EV): 2.0V

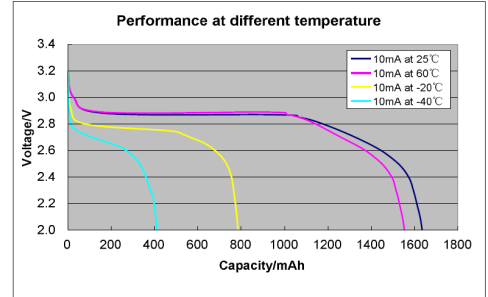
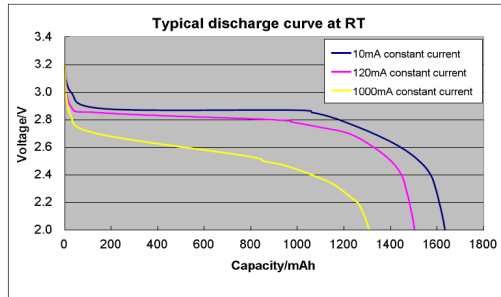
1000 mAh discharge at 1000mA constant; continuous  
 End Voltage (EV): 2.0V

**duration** new battery

**pulse load:** load: 900mA for 3s, rest time 27s  
 >1600 cycles at 23°C; End Voltage (EV): 1.55V

load: 1200mA for 3s, rest time 7s  
 >1000 cycles at 23°C; End Voltage (EV): 1.55V

**discharge diagrams**



**max. discharge current**  
 continuous: 1500 mA  
 pulse: 3000 mA

**internal resistance:** ≤ 0.5 Ω sine wave AC method (1kHz; 0.1mA) according to IEC 896-2

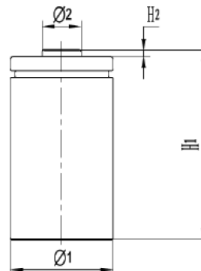
**shelf life:** 10 years under proper storage conditions

**ambient temperature range:**  
 - 40...60 °C operating temperature  
 - 20...45 °C storage temperature  
 5...20 °C recommended storage temperature

**relative humidity:** ≤ 75% during storage

**mechanical specifications**

**cell dimensions**  
 diameter Ø1: 17.0 - 0.7 mm  
 diameter Ø2: 6.5 - 1.0 mm  
 height H1: 34.5 - 1.0 mm  
 height H2: 1.6 - 0.6 mm  
 weight: 16.5 ± 2 g



	<b>ANSMANN Specifications for model:</b>	<b>CR-123A Lithium Photo Battery</b>
	data sheet no. / part no.	
	s.n	701801
	author / date	TG / 15.01.2019

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