

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

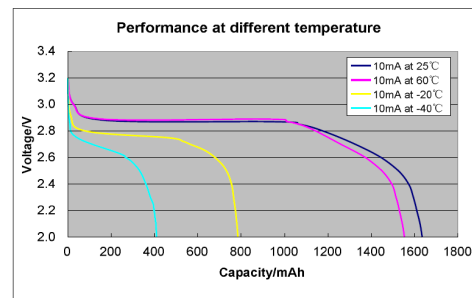
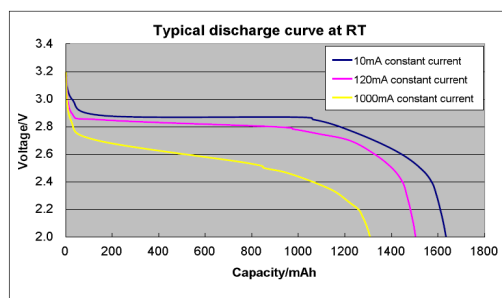
1000 mAh discharge at 1000mA constant; continuous
 End Voltage (EV): 2.0V

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

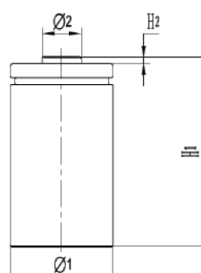
shelf life: 10 years under proper storage conditions

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



	ANSMANN Specifications for model:	CR-123A Lithium Battery bulk package
	data sheet no. / part no.	5020011
	supplier no.	701801
	author / date	TG / 19.06.2018