Technical Data Coin-type Manganese Dioxide Lithium Battery

Type: CR1616

Made in China

2022.Ver1.0

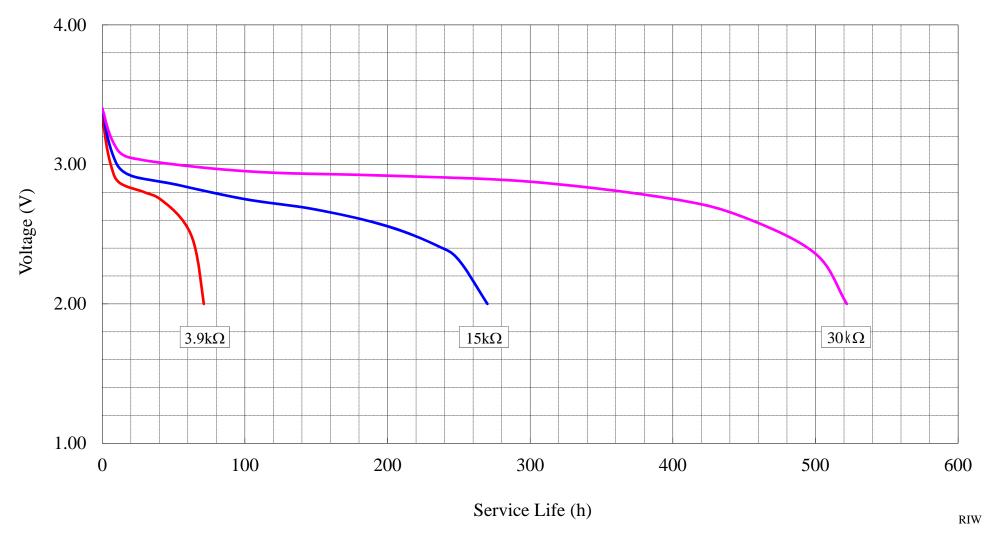
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Ratings

Battery system Item		Coin-type Manganese Dioxide Lithium Battery		
Battery type		CR1616		
Nominal Voltage		3.0V		
Standard Capacity [Condition]		50 mAh [on continuous discharge under 30k load to 2.0V end-point at 20deg.C]		
Terminals	Cap Terminals	SUS + Ni plate		
Terminais	Base Terminals	SUS + Ni plate		
Outer	Diameter	φ16.0(0/-0.3)mm		
dimensions	Overall height	1.6(0/-0.2)mm		
Usable temperature range		20 (5do C		
Storage temperature range		-20 ~ 65deg.C		

CR1616 Discharge Characteristics

Test condition: cotinuous discharge, Initial, 20deg.C

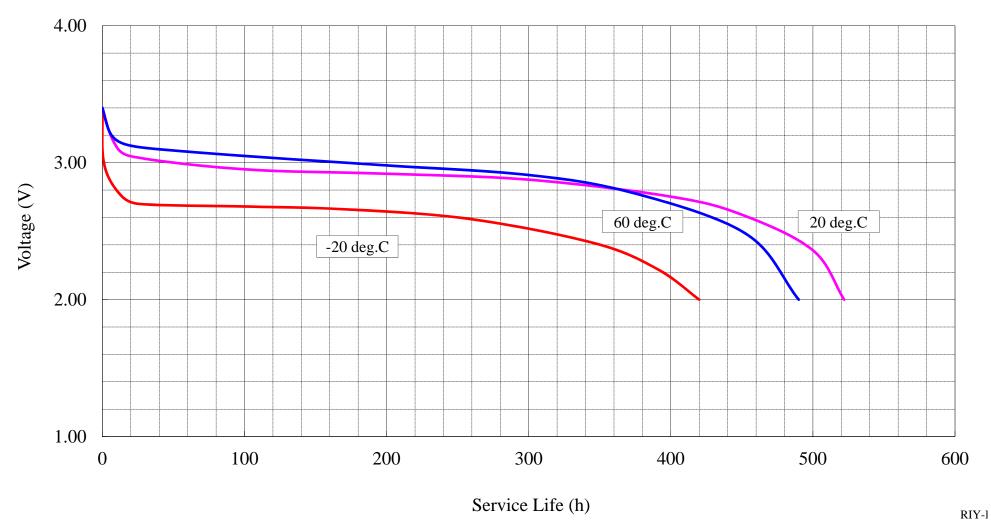


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CR1616 Discharge Characteristics

Test condition: $30k\Omega$ continuous discharge, Initial

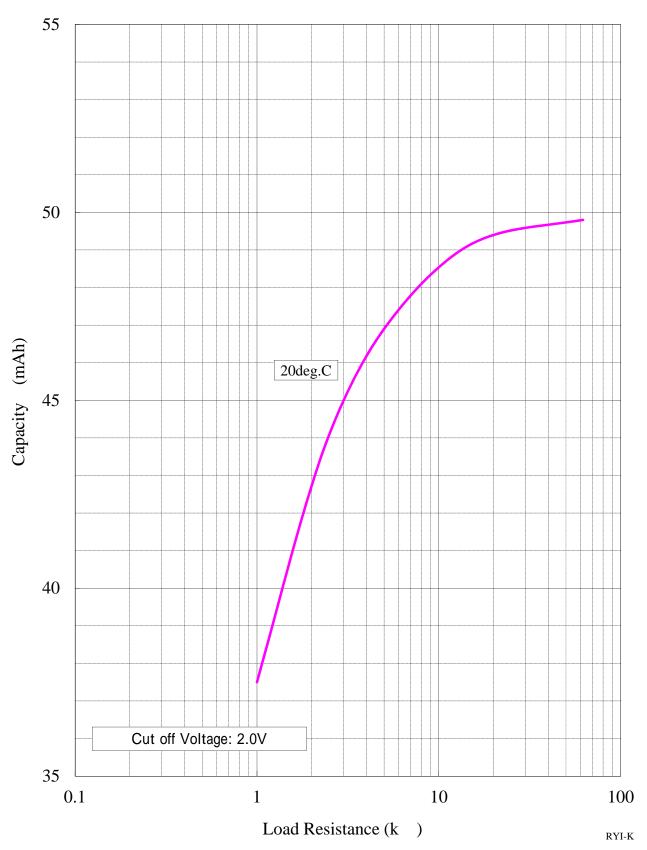


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CR1616 Load Resistance vs Capacity

Test condition: Initial, 20deg.C



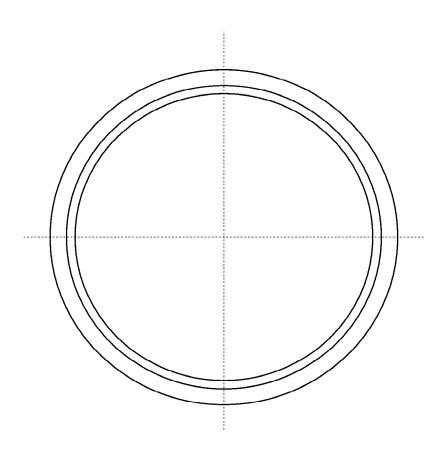
CR1616 Safety Evaluation Test

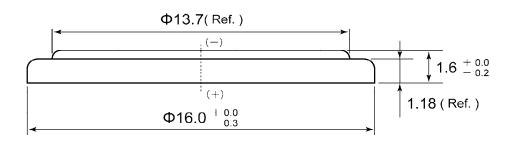
	n	Conditions	Requirements	
Vibration test	5	Amplitude: 1.0mm Frequency: 10 to 55 to 10Hz Sweep: 1minute Period: 2h per each direction of X and Y axes, 4h in total	Open-circuit voltage is to be kept same as initial value. No abnormal appearance and no substandard dimensions are to be observed.	
Weighing test	5	Weight of 19.8N(2kgf) is laid for 1 hour and 9.8N(1kgf) for 24 hours respectively on all over negative side of cells.	Open-circuit voltage is to be kept same as initial value. No abnormal appearance and no substandard dimensions are to be observed.	
Drop test	5	Number of drops: 10 times Height: 75cm Floor: Concrete Direction: Free	Open-circuit voltage is to be kept same as initial value. No abnormal appearance and no substandard dimensions are to be observed.	
Heat test	5	Cells are kept stored for 24hrs. Temperature: 80+/-2deg.C Humidity: 70%RH or less.	Open-circuit voltage is to be kept same as initial value. No abnormal appearance and no substandard dimensions are to be observed.	
Temperature cycle	5	Temperature: -10deg.C 60deg.C (4h/Cycle, 6cycle/day,20Day)	Open-circuit voltage is to be kept same as initial value. No abnormal appearance and no substandard dimensions are to be observed.	
Short-circuit test	5	Cells are Short-circuited for 48 hours.	No burst, No fire	

CR1616 Leakage Performance

	Test items	Electrolyte Leakage (%)				
Test condition	Storage period	20days	40days	60days	90days	
Storage at high temperature	45deg.C-70%RH	0	0	0	0	
and high humidity	60deg.C-90%RH	0	0	ŀ	-	
Temperature cycle	Temperature: -10deg.C 60deg.C (4h/Cycle, 6cycle/day,20Day)	0	-	-	-	

CR1616 Outline Drawing





Unit: mm