

*Mistiya Electronics Inc.*

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## Lithium Manganese Dioxide Column Battery Specification

Model	Max size (mm)	Weight (g)	Nominal Voltage (V)	Rated capacity (mAH)	Max Pulse Current (mA)	Max Continuous Current (mA)
High power type						
CR14250(1/2AA)	14.5×25.0	10	3	600	1500	800
CR14505(AA)	14.5×50.5	20	3	1400	3000	2000
CR17335(CR123A)	17.0×33.5	20	3	1300	3000	2000
CR17450	17.0×45.0	30	3	2000	3000	2000
CR14335	14.5×33.5	14	3	800	1000	1000
CR15270	15.6×27.0	13	3	750	2000	1000
CR17250	17.0×25.0	14	3	750	2000	1000
CR17505	17.0×50.5	30	3	2200	3000	2000
CR18505	18.0×50.5	35	3	2400	3000	2000
CR18650	18.5×65.0	45	3	3200	3000	2000
CR20505	20.0×50.5	38	3	2800	3000	2000
CR-P2	35×19.5×36	42	6	1300	3000	2000
2CR5	34×17×45	43	6	1300	3000	2000
CR435	4.2×35.9	1	3	50	25	5
CR26500(C)	26.2×50.5	62	3	5000	3000	2000
CR34615(D)	34.0×61.5	125	3	10000	3000	2000
CR425	4.2×25.9	0.75	3	25	15	3
High capacity type						
CR14250SE(1/2AA)	14.5×25.0	11	3	850	70	7
CR14335SE(2/3AA)	14.5×33.5	16	3	1100	80	8
CR14505SE(AA)	14.5×50×5	22	3	1800	100	10
CR17335SE(123A)	17.0×33.5	22	3	1800	100	10
CR17450SE(4/5A)	17.0×45.0	28	3	2400	150	15

## Lithium Manganese Dioxide Button Battery Specification

Model	Max size (mm)	Weight (g)	Nominal Voltage (V)	Nominal Capacity (mAH)	Standard Current (mA)	Max Pulse Current (mA)	Max Continuous Current (mA)
CR1216	12.5×1.6	0.7	3	26	0.1	5	0.2
CR1220	12.5×2.0	0.9	3	38	0.1	5	0.2
CR1225	12.5×2.5	1	3	50	0.1	5	0.2
CR1530	15.0×3.0	1.4	3	85	0.1	7	0.3
CR1616	16.0×1.6	1.2	3	50	0.1	8	0.3
CR1620	16.0×2.0	1.3	3	70	0.1	8	0.3
CR1632	16.0×3.2	2.3	3	120	0.1	8	0.3
CR2016	20.0×1.6	1.8	3	75	0.1	10	0.3
CR2025	20.0×2.5	2.5	3	150	0.2	15	0.5
CR2032	20.0×3.2	3.1	3	210	0.2	15	0.5
CR2320	23.0×2.0	3	3	130	0.2	15	0.5
CR2330	23.0×3.0	4	3	260	0.2	15	0.5
CR2430	24.5×3.0	4.2	3	270	0.2	15	1
CR2450	24.5×5.0	6.2	3	550	0.2	15	1
CR2477	24.5×7.7	10.2	3	950	0.2	15	1

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# UNITECH

UNITECH BATTERY LIMITED

## Lithium Manganese Dioxide Column/Button Battery

### Features

1. High monomer voltage: operation voltage of 2.8-3.2V.
2. High specific energy: a maximum specific energy of 330wh/kg and 750wh/dm<sup>3</sup>, high capacity, reliable performance, steady discharge voltage, no voltage lagging phenomenon, applicable for discharge of huge current.
3. Wide application temperature: applicable at -40°C to 70°C.
4. High security, high reliability, harmless, power of environmental protection.



### Caution

1. Manganese dioxide lithium batteries are primary batteries, so they cannot be recharged. When used as a back up battery, to prevent current from the main power source flowing into the circuit with the battery, use blocking diodes to prevent reverse current, as shown in the figure on the right. Use a low current leakage type of diode, and choose it so that the charge capacity from a reverse current leak less than 1-2% of the nominal capacity. For details regarding other uses of these batteries including power boosting, please contact us.
2. Do not connect a battery in series with the power source, which would result in increasing current flowing into the battery.
3. When connecting a lead directly to a battery, do not directly solder or spot weld it on the battery. Be sure to use either a bar or a pin for the connection. When soldering, the temperature should not exceed 270°C, and soldering time should not be over 5 seconds. In the case of automotive soldering, only the terminal should be immersed. Be careful not to let the battery stay immersed or fall into the solder.
4. For equipment that generates heat, keep the battery away from the area that gets hot. When a battery must be close to a heat generating area, insulate the battery from the heat, making sure that the battery is not exposed to over 60°C.
5. Battery discharge temperature of 20 ± 2°C, end-point voltage of 2.0V, battery operation temperature from -40 to +70°C.



### Application

Widely applied in: water/electricity/ gas meter, industrial PC, computer RAM CMOS circuit memory system, wireless telecommunication, earthquake tester, military radio, weapon under water, medical equipment, portable telecommunication facility, camera, video recorder, etc.

# Li-MnO<sub>2</sub>

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