

# Coin-type Lithium Batteries

Panasonic Energy Co.,Ltd.

# Coin-type Lithium Batteries

Wide range of lineups, from thin-type to high capacity models

## ■ Value Proposition

- 1) Enables to select suitable batteries depending on the needs, such as main or back up batteries
- 2) More than 40 years of technical development and manufacturing experiences and reliable quality
- 3) Enables to operate under severe conditions

## ■ Panasonic Original Technique

- 1) Excellent low temperature characteristics by manganese dioxide positive electrode (CR series)
- 2) Exhibits stable performance after long period in storage due to low self-discharge characteristic (BR series)

### Benchmark (CR series Coin-type Lithium Batteries)

Item \ Company	Panasonic	A company	B company	C company
Discharge characteristics	+++	+++	+++	+
Storage characteristics (stored at 60°C for 30days)	+++	+	++	+
Long time reliability	+++	++	++	×

### Applications

- Memory back-up
- Remote keyless entry
- Price tag
- Communication devices
- Smart meters etc.

### Schedule

Mass production

# CR series Coin-type Lithium Batteries Line up

## Line up

Series/Type		Model No.	Nominal voltage (V)	Nominal capacity (mAh)	Continuous drain (mA)	Diameter (mm)	Height (mm)	Mass about (g)	Operating temperature range (°C)
CR Series	Standard	CR1025	3	30	0.1	10.0	2.5	0.6	-30 ~ 85
		CR1216		25	0.1	12.5	1.6	0.7	
		CR1220		35	0.1	12.5	2.0	0.9	
		CR1616		55	0.1	16.0	1.6	1.0	
		CR1620		75	0.1	16.0	2.0	1.3	
		CR1632		140	0.1	16.0	3.2	1.9	
		CR2012		55	0.1	20.0	1.2	1.4	
		CR2016		90	0.1	20.0	1.6	1.6	
		CR2025		165	0.2	20.0	2.5	2.3	
		CR2032		225	0.2	20.0	3.2	2.8	
		CR2330		265	0.2	23.0	3.0	3.7	
		CR2354		560	0.2	23.0	5.4	5.7	
		CR2412		100	0.2	24.5	1.2	2.0	
		CR2450		620	0.2	24.5	5.0	6.2	
		CR2477		1000	0.2	24.5	7.7	10.5	
	CR3032	500	0.2	30.0	3.2	6.9			
	For High Temperature	CR2032A	3	210	0.2	20.0	3.2	3.0	-40 ~ 125
		CR2032B		210	0.2	20.0	3.2	3.0	-40 ~ 120
CR2050A		345		0.2	20.0	5.0	4.1	-40 ~ 125	
CR2050B2		345		0.2	20.0	5.0	4.1	-40 ~ 120	
CR2450B		560		0.2	24.5	5.0	6.2	-40 ~ 105	

\*The contents of this page are valid as of September 2022 and are not intended to make or imply any guarantee and warranty.

## Applications

Price tag

Card type remote controller

Communication devices

Tracking device

Vital sensor

Memory back-up

Remote keyless entry

TPMS, ETC



Used in various IoT devices

# BR series Coin-type Lithium Batteries Line up

## Line up

Series/Type		Model No.	Nominal voltage (V)	Nominal capacity (mAh)	Continuous drain (mA)	Diameter (mm)	Height (mm)	Mass about (g)	Operating temperature range (°C)
BR Series	Standard	BR1220	3	35	0.03	12.5	2.0	0.7	-30 ~ 85
		BR1225		48	0.03	12.5	2.5	0.8	
		BR1632		120	0.03	16.0	3.2	1.5	
		BR2032		200	0.03	20.0	3.2	2.6	
		BR2325		165	0.03	23.0	2.5	3.0	
		BR2330		255	0.03	23.0	3.0	3.2	
		BR3032		500	0.03	30.0	3.2	5.7	
	For high temperature	BR1225A	3	48	0.03	12.5	2.5	0.8	-40 ~ 125
		BR1632A		120	0.03	16.0	3.2	1.5	
		BR2330A		255	0.03	23.0	3.0	3.2	
		BR2450A		550	0.03	24.5	5.0	4.9	
BR2477A		1000		0.03	24.5	7.7	7.9		

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## Applications

Security device



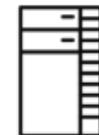
Smart meters



Commercial equipment



Memory back-up



TPMS, ETC etc.



Used in various IoT devices

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**Panasonic Energy Lithium Batteries HP**

**<https://industrial.panasonic.com/ww/products/pt/lithium-batteries>**

**Panasonic ENERGY**

*Energy that changes the future.*