

Panasonic ENERGY

Panasonic Energy Co., Ltd.

1-1 Matsushita Cho, Moriguchi City, Osaka, Japan

Date: 15-Apr-2024

No. R240001

Conformity assessment report

General

Product	Coin Primary lithium batteries
Trade name	Panasonic
Model number	CR2032
Battery category	Portable(General use), button cell

The product complies with the REGULATION (EU) 2023/1542

Signature: Approved and Signed by
Printed Name / Title



Takuyuki Okano / General Manager
Energy Device Business Division
Panasonic Energy Co., Ltd.

Publication record

Rev.	Date	Contents	Reasons
01	15-Apr-24	Initial Issue	-

Product identification, use, certification etc.

This product is a primary battery used for designated EEE.
Please do not recharge.

1	Product	Coin Primary lithium batteries
2	Trade Name	Panasonic
	Model Number	CR2032
3	Nominal voltage / capacity	3V / 225 mAh
4	CE Marking	Not affixed on the battery due to unavailability of marking space.
5	Battery category	Portable(General use), button cell
6	Battery weight	2.8 g
7	Factory name and address	PT. Panasonic Gobel Energy Indonesia Kawasan Industri Gobel, Jl. Teuku Umar Km.44 Telaga Asih Cikarang Barat, Kab. Bekasi 17530, Jawa Barat – Indonesia --- ---

Series Model

	Model Number	Difference point from the base model.
Base Model	CR2032	---
series Model	CR-2032/@@@	Weight depends on external terminal etc.
series Model	CR-2032L/@@@	Weight depends on external terminal etc.
series Model	---	---

@@@; suffix consisting of 2 to 4 digits and letters, used to identify specifications such as terminals and packaging.

Conformity assessment for Battery

Trade name	Panasonic
Model number	CR2032

REGULATION(EU)2023/1542

Battery category	Portable(General use), button cell
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ER Requirements	*Applicability	**Conformity assessment module	Harmonized Standards	***Conformity evaluation results
Article 6) Restrictions of substances	Y	A	N/A	PASS
Article 7) Carbon footprint of electric vehicle, light means of transport and rechargeable industrial batteries	N/A	D1	N/A	N/A
Article 8) Recycled content in industrial batteries, electric vehicle batteries and SLI batteries	N/A	D1	Waiting for delegated law	N/A
Article 9) Performance and durability requirements for portable batteries of general use	N/A	A	Waiting for delegated law	N/A
Article 10) Performance and durability requirements for LMT batteries, rechargeable industrial batteries and electric vehicle batteries	N/A	A	Waiting for delegated law	N/A
Article 12) Safety of stationary battery energy storage system	N/A	A	Waiting for delegated law	N/A
Article 13) Labelling and marking of batteries	Y	A	N/A	Adaptable
Article 14) Information on the state of health and expected lifetime of batteries using a battery management system	N/A	A	N/A	N/A

(*) Applicable items Y---Applicable N/A---Not applicable depending on battery category

(**) Conformity assessment module A or D1 or G

(***) Adaptable; Because the battery is too small, marking and information shall be affixed to the packaging and/or to the documents accompanying the final product.

Article 6 : Restrictions of substances.

Please refer to separate report.

Article 13 : Labelling and marking of batteries.

Please refer to attached drawing of the Delivery Specifications.

Article 13

	Indication items	Information
3	Minimum average duration and a label indicating 'non-rechargeable '	This requirement will be mandatory from 18 Aug. 2026

Annex VI: Labelling marking and information requirements

Part A: General information about batteries

	Indication items	Information
1	Manufacturer's identification	On the battery
2	Battery category	Portable battery
3	Manufacturing place (geographical location of a battery manufacturing plant)	PT. Panasonic Gobel Energy Indonesia Kawasan Industri Gobel, Jl. Teuku Umar Km.44 Telaga Asih Cikarang Barat, Kab. Bekasi 17530, Jawa Barat – Indonesia
4	Manufacturing date (month and year)	On the battery
5	Weight	2.8 g
5a	Capacity	225 mAh
6	Chemistry	Primary lithium batteries
7	Hazardous substances contained in the battery other than mercury(Hg), cadmium(Cd) or lead(Pb)	1,2-dimethoxyethane, Lithium perchlorate
8	Usable extinguishing agent	Alcohol-resistant foam, Dry sand
9	Critical raw materials contained in the battery above a concentration of 0.1% weight by weight	Lithium, Manganese

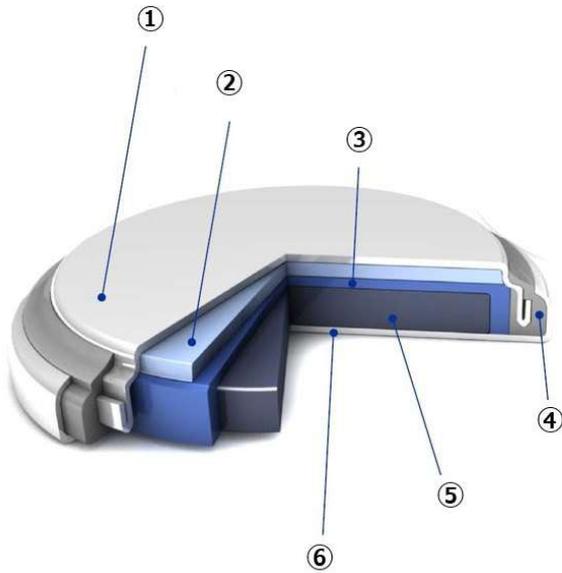
Part B: Symbol for separate collection of batteries

	Indication items	Information
1	Crossed-out wheeled bin mark	Not affixed on the battery due to unavailability of marking space. Chemical symbol is not required as it is below the threshold.

Part C: QR code

	Indication items	Information
1	QR Code	Not affixed on the battery due to unavailability of marking space. This requirement will be mandatory from 18 Feb. 2027

Descriptions and explanations



No	Parts
①	Negative pole
②	Anode (Lithium)
③	Separator
④	Gasket
⑤	Cathode (Manganese dioxide)
⑥	Positive pole

Battery appearance (Typical example)



REGULATION (EU) 2023/1542
Article 6 : Restrictions on substances
Conformity Assessment Report

1. Product Information

Name of product	Manganese Dioxide Primary Lithium Coin Batteries
Category of battery	<input type="checkbox"/> Starting, lighting and ignition battery (SLI) <input type="checkbox"/> Electric vehicle battery (EV) <input type="checkbox"/> Light means of transport battery (LMT) <input checked="" type="checkbox"/> Industrial battery <input checked="" type="checkbox"/> Portable battery
Model number	CR-1025, CR-1216, CR-1220, CR-1616, CR-1620 CR-1632, CR-2012, CR-2016, CR-2025, CR-2032 CR-2330 CR-2354, CR-2412, CR-2450, CR-2477 CR-3032

2. Subjected regulation and directive

The following regulations and directives are subject to Article 6: Substance Restrictions of REGULATION (EU) 2023/1542.

- Annex XVII to Regulation (EC) No 1907/2006
- Article 4(2), point (a), of Directive 2000/53/EC
- Annex I to REGULATION (EU) 2023/1542

3. Compatibility confirmation method

Since harmonized standards are specified in neither Article 6 nor Annex 1 of REGULATION (EU) 2023/1542, we use EN IEC 63000:2018 as a reference standard.

Confirmed by any of the following three methods.

- Supplier declarations: Non-use Warranty Certificates.
- Material declarations by supplier: List of specific substance content and identifying any exemptions.
- Analytical test results: Test data obtained by high-precision analysis (quantitative analysis) of product parts. Test data related to Hg, Cd, Pb, and Cr(VI) are applicable.

Conformity Assessment Result

We have confirmed that all parts of these battery products do not contain restricted substances by the applicable regulations.

Target regulation	Restricted substances	Target category	Threshold	Result
Annex XVII to Regulation (EC) No 1907/2006	Annex XVII Restricted substances	All batteries	Restriction conditions are set for each entry number.	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
Article 4(2), point (a), of Directive 2000/53/EC	Hg	Batteries subject to ELV Directive	0.1% per homogeneous material	<input type="checkbox"/> Pass <input type="checkbox"/> Fail <input checked="" type="checkbox"/> Not applicable
	Cd		0.01% per homogeneous material	<input type="checkbox"/> Pass <input type="checkbox"/> Fail <input checked="" type="checkbox"/> Not applicable
	Pb		0.1% per homogeneous material	<input type="checkbox"/> Pass <input type="checkbox"/> Fail <input checked="" type="checkbox"/> Not applicable
	Cr (VI)		0.1% per homogeneous material	<input type="checkbox"/> Pass <input type="checkbox"/> Fail <input checked="" type="checkbox"/> Not applicable
Annex I to REGULATION (EU) 2023/1542	Hg	All batteries	0.0005% per battery weight	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
	Cd	Portable Battery	0.002% per battery weight	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> Not applicable
	Pb ^{※1}	Portable Battery	0.01% per battery weight	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> Not applicable

※1 : Regulations for zinc-air button batteries will start from August 2028.

Date: February 16, 2024

Signature: Approved and Signed by

Manabu Nara

Printed Name / Title

Manabu Nara / General Manager
Quality Administration Department
Energy Device Business Division
Panasonic Energy Co., Ltd.