

### Gefahrgutinformation / Dangerous Goods Information

Artikelnummer/Article number: **7KM4211-1BA00-3AA0, 7KM4212-0BA00-2AA0  
7KM4212-0BA00-3AA0, 7KM4211-1BB00-3AA0  
7KN2715-1CE40-0YCO, 7KN2715-4CE40-0YCO  
PAC4200 Power Monitoring Device**

#### Produkt mit

- 1 beigepackten Lithium-Metall-Zelle, die die Voraussetzungen der Sondervorschrift 188 der „UN Recommendations on the Transport of Dangerous Goods“ erfüllt, insbesondere:
  - Zelle  $\leq$  1 g Lithiumgehalt
  - Zelle entspricht einem Typ, für den nachgewiesen wurde, dass er die Anforderungen jedes zum Testzeitpunkt anwendbaren Tests des UN Manual of Tests and Criteria, Teil III, Unterabschnitt 38.3, Revision 3 Amendment 1 oder einer nachfolgenden Revision und Amendment erfüllt.

(weitere Details s. auch Anlage Test Summary)

Das Produkt ist daher bei Lieferung für die nachfolgend angeführten Gefahrgutvorschriften wie angegeben klassifiziert und ist entsprechend den anwendbaren nationalen und internationalen Gefahrgutvorschriften für die genutzten Verkehrsträger zu befördern.

Bitte beachten Sie für weitere Beförderungen die fortlaufenden Änderungen der Gefahrgutvorschriften sowie ggf. Änderungen am Produkt nach Lieferung.

#### Product with

- 1 packed with lithium metal cell meeting the preconditions of Special Provision 188 of the “UN Recommendations on the Transport of Dangerous Goods”, especially:
  - Cell  $\leq$  1 g lithium content
  - Cell is of a type proved to meet the requirements of each applicable test in the UN Manual of Tests and Criteria, Part III, sub-section 38.3, Revision 3 Amendment 1 or any subsequent revision and amendment applicable at the date of the type testing (more details see also attached Test Summary).

On delivery, the product is therefore classified according to the dangerous goods regulations as mentioned below and has to be transported according to the applicable national and international dangerous goods regulations for the modes of transport used.

Please consider for further transports the continuous changes of the dangerous goods regulations as well as applicable changes of the product after delivery.

Anlage / Attachment:

Test Summary according 38.3 UN Manual of Tests and Criteria

ADR/RID/ADN: UN 3091 Lithium-Metall-Batterien, mit Ausrüstungen verpackt, 9,  
1 Zelle pro Gerät, Voraussetzungen der Sondervorschrift 188 erfüllt  
UN 3091 Lithium metal batteries packed with equipment, 9,  
1 cell per equipment, preconditions of Special Provision 188 met

ICAO-TI/IATA-DGR: UN 3091 Lithium metal batteries packed with equipment, 9,  
1 cell per equipment, preconditions of Section II PI 969 met

IMDG Code: UN 3091 Lithium metal batteries packed with equipment, 9,  
1 cell per equipment, preconditions of Special Provision 188 met

Batterie / battery: Typ, type: 1x CR2032  
Hersteller, manufacturer: Varta





## Supplier's Test Summary

in accordance with UN Manual of Tests and Criteria  
Part III, subsection 38.3

### Information about the manufacturer

Name VARTA Microbattery GmbH  
Address VARTA-Platz 1  
73479 Ellwangen  
Germany  
Phone +49 7961 921-0  
E-mail info@varta-microbattery.com  
Website www.varta-microbattery.com

### Description of the product

Type Lithium metal cell  
Physical description Primary lithium metal button cell

### Product test information

Each object of this declaration has been tested and was found to be compliant with the UN Manual of Test and Criteria, Part III, subsection 38.3. This includes all single cells and battery assemblies containing not more than one cell of those given in the following list.

Model	Mass	Lithium content	Edition of the manual of test and criteria ST/SG/AC.10/11	Test report number	Test report date
CR2032	3 g	0.07 g	Rev. 6 / Amend. 1	1120060501	2020-07-29
CR2032-P	3 g	0.07 g	Rev. 6 / Amend. 1	1121040203	2021-05-20
CR2032-N	3.2 g	0.064 g	Rev. 6	LJKJ20180112U01	2018-02-02

### List of tests conducted and results

Test Item	Test Result	Test Item	Test Result
T.1 Altitude simulation	pass	T.5 External short circuit	pass
T.2 Thermal test	pass	T.6 Impact/Crush	pass
T.3 Vibration	pass	T.7 Overcharge	N/A
T.4 Shock	pass	T.8 Forced Discharge	pass



## Test laboratories

The tests were performed by one of the following test laboratories.

Name	Shanghai Research Institute of Chemical Industry Testing Centre (SRICI)	Name	Guangzhou MCM Certification and Testing Co., Ltd
Address	No. 345 Yunling East Road, Pudong Shanghai 200062 China	Address	1 F No. 13, Zhong San Section, Shi Guang Road, Panyu District, Guanzhou City, Guangdong Province, China
Phone	+86 21 52569800	Phone	+86 20 34777662
E-mail	msds123@gmail.com	E-mail	markmiao@mcmtek.com
Website	www.ghs.cn	Website	www.mcmtek.com

## Additional information

In original VARTA packaging the products comply with the following special provisions of international transport regulations:

- IATA DGR: Packing Instruction 968 Section IB (Transportations of cells or batteries packed with equipment or contained in equipment have to follow Packing Instructions 969 or 970 Section II.)
- ADR/RID/ADN/IMDG Code: Special Provision 188
- DOT / 49 CFR: §173.185 (c)

The products have been manufactured under a quality management program according to IATA DGR clause 3.9.2.6.1 (e), ADR clause 2.2.9.1.7 e), and IMDG code clause 2.9.4.5.

Ellwangen, 2021-07-19

*Place and date of issue*



*Company stamp*

Dr. Sebastian Röhrer  
Manager Product Compliance

*Signature, name and title*

## Information about the manufacturer

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CR2032	3 g	0.07 g	Rev. 4	LB160059	2006-08-23
CR2032-P	3 g	0.07 g	Rev. 5 / Amend. 1	1113110028	2013-12-09
CR2032-N	3.2 g	0.064 g	Rev. 6	LJKJ20180112U01	2018-02-02

## List of tests conducted and results

Test Item	Test Result	Test Item	Test Result
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T2. Thermal test	pass	T6. Impact/Crush	pass
T3. Vibration	pass	T7. Overcharge	N/A
T4. Shock	pass	T8. Forced Discharge	pass

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Phone	+86 21 52569800	Phone	+86 20 34777662
E-mail	msds123@gmail.com	E-mail	markmiao@mcmtek.com
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Ellwangen, 2019-12-19

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*Place and date of issue*

VARTA Microbattery GmbH  
VARTA - Platz 1  
D-73479 Ellwangen  
Germany  


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*Company stamp*

i. A. 

Dr. Sebastian Röhler  
Manager Product Compliance

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*Signature, name and title*