renata batteries A COMPANY OF THE SWATCH GROUP	**Product Change Notification PCN**	**No.** 190329-01 Publishing Date: March 29th 2019

Product information			
Item affected / Type	**CR1216 MFR / CR1220 MFR in different packing and different tabbed variations**		
Part - Nr. (SAP)	**See Annex I**	**Drawing-Nr.**	**See Annex I**

Product Change Notification	**Reason for proposed change**	**Description of change**
	☐ Customer requirement	Change of Country of Origin For CR1216 MFR and CR1220 MFR naked cells.
	☐ Quality complaint Nr. …….	
	☐ Quality improvement	
	☐ Process improvement –	
	X technical modification	
	☐ Normative requirements	
	☐ Cost efficiency	
	☐ Second source	
	☐ Correction of the documents	
	X Production location, change	
	☐ see attachment	

Product Change Notification

Description and reason of change

Change of Country of Origin
For CR1216 MFR and CR1220 MFR naked cells.

The CR1216 MFR and CR1220 MFR lithium button cells can no longer be produced at the production site in Japan and will be transferred to Indonesia. In addition to the fact that the country of production changes (country of origin), the specification values have also changed slightly because of another production facility (data sheets for comparison to find in Annex II to V).

Below in Annex I you'll find comparison list with old and new part numbers (SAP Number)
Part Description will remain unchanged.
Affected parts will be naked coin cells in IB or SC packing and as well all tabbed cells (complete List see Annex I)

Rolling change will be expected to take place from Q2 to Q3 /2019 depending on demand and availability.

Sampling with new cell types could be done from now.

Customer Part Number	Manufacturer Part Number	Manufacturer Part Number (new)	PCN Effectivity date	Sample availability date	Last time delivery	Expected supplier qual. date
n/a	See Annex I	See Annex I	29.03.2019	Samples could be ordered	While stock lasts	done

Annex I

Bare Cells					
RENATA part name actual	**SAP Number obsolete**	**Datasheet obsolete**	**Renata part name new**	**SAP Number new**	**Datasheet new**
CR1216 MFR.IB	100551	Rev. CR1216MFR. 02 / 03.2017	CR1216 MFR.IB	100924	CR1216MFR.V02 / 03.2019
CR1216 MFR.SC	703580	Rev. CR1216MFR. 02 / 03.2017	CR1216 MFR.SC	703925	CR1216MFR.V02 / 03.2019
CR1220 MFR.IB	100552	Rev. CR1220MFR. 03 / 04.2018	CR1220 MFR.IB	100925	CR1220MFR. V02 / 03.2019
CR1220 MFR.SC	703581	Rev. CR1220MFR. 03 / 04.2018	CR1220 MFR.SC	703926	CR1220MFR. V02 / 03.2019
Tabbed cells standard					
RENATA part name actual	**SAP Number actual**	**Drawing number obsolete**	**Renata part name new**	**SAP Number new**	**Drawing number new**
CR1216 MFR FH	702601	10.0485.4	CR1216 MFR FH	703928	10. 1749.4
CR1216 MFR FV	702603	10.0487.4	CR1216 MFR FV	703929	10. 1750.4
CR1216 MFR SM	702602	10.0486.4	CR1216 MFR SM	703932	10. 1751.4
CR1220 MFR FH	702604	10.0488.4	CR1220 MFR FH	703933	10. 1752.4
CR1220 MFR FV	702606	10.0490.4	CR1220 MFR FV	703934	10. 1753.4
CR1220 MFR SM	702605	10.0489.4	CR1220 MFR SM	703935	10. 1754.4
Tabbed cells customised					
RENATA part name actual	**SAP Number actual**	**Drawing number obsolete**	**Renata part name new**	**SAP Number new**	**Drawing number new**
CR1216 MFR T759-1	702812	10.0591.4	CR1216 MFR T759-1	703936	10. 1755.4
CR1220 MFR T751-1	702780	10.0562.4	CR1220 MFR T751-1	703937	10. 1756.4
CR1216 MFR T750-1	702781	10.0561.4	CR1216 MFR T750-1	703939	10. 1757.4
CR1220 MFR T926-2	703896	10.1648.4-1	CR1220 MFR T926-2	703940	10. 1758.4
4xCR1216 MFR T487-1	702952	10.0519.4	4xCR1216 MFR T487-1	703947	10. 1771.4
CR1216 MFR T667-1	703973	10.1799.4	CR1216 MFR T667-1	TBD	10. 1865.4

Annex II Datasheet CR1216 MFR "obsolete"

renata batteries

CR1216 MFR

3V Lithium Battery OEM

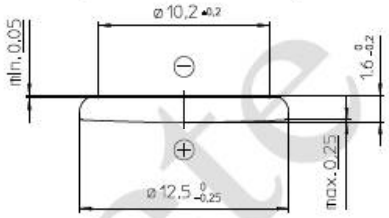
Technical Data Sheet

Specifications

Chemical System	Li / MnO_2
Nominal Voltage	3 V
Nominal Capacity	30 mAh
Standard Discharge Current	0.1 mA
Max. Cont. Discharge Current *	1 mA
Average Weight	~ 0.7 g
Operating Temperature*	-30 - +70°C
Self Discharge at 23°C	< 1% / year

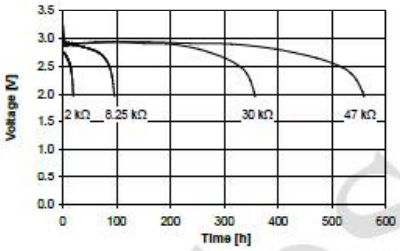
Dimensions

(According to IEC 60086)

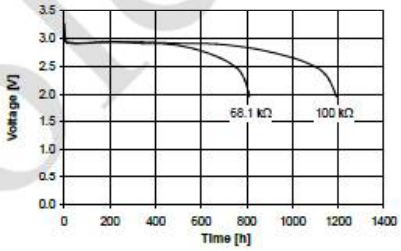


Performance

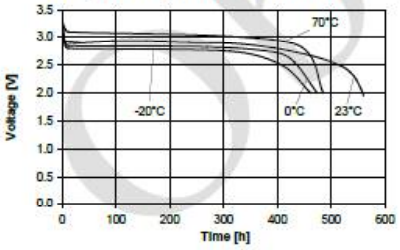
Discharge performance at 23°C



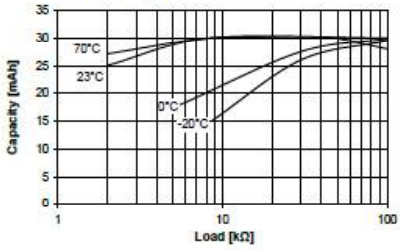
Discharge performance at 23°C



Temperature performance Load 47kΩ



Cell capacity at various loads



*In applications where the battery is exposed to temperatures above 60 °C, please contact Renata for consultancy.
*Average discharge current for a yield of 70% of the nominal capacity with cut-off voltage of 2.0V at 23°C.

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Rev. CR1216MFR 02 / 03.2017

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obsolete

Annex III Datasheet CR1216 MFR "new"

renata batteries

CR1216 MFR

3V Lithium Battery OEM

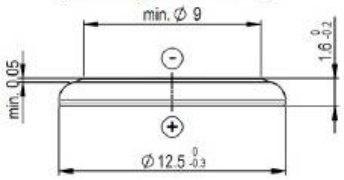
Technical Data Sheet

Specifications

Chemical System	Li / MnO_2
Nominal Voltage	3 V
Nominal Capacity	25 mAh
Standard Discharge Current	0.1 mA
Max. Cont. Discharge Current **	1 mA
Average Weight	~ 0.7 g
Operating Temperature*	-30 - +70°C
Self Discharge at 23°C	≈ 1% / year

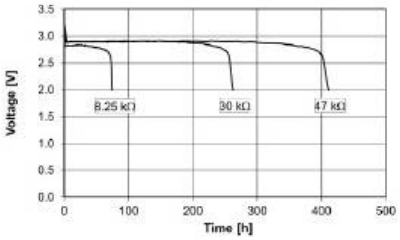
Dimensions

(According to IEC 60086)

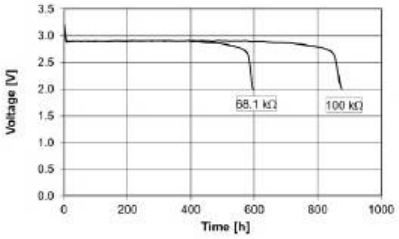


Performance

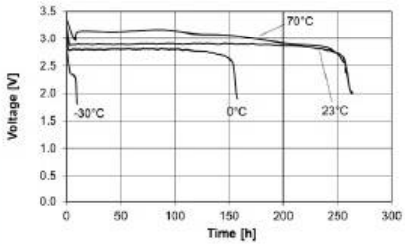
Discharge performance at 23°C



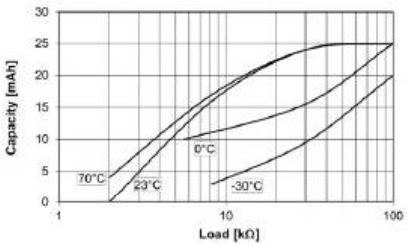
Discharge performance at 23°C



Temperature performance Load 30kΩ



Cell capacity at various loads



*In applications where the battery is exposed to temperatures above 60 °C, please contact Renata for consultancy.
**Average discharge current for a yield of 70% of the nominal capacity with cut-off voltage of 2.0V at 23°C.

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Annex IV Datasheet CR1220 MFR "obsolete"

renata batteries

CR1220 MFR

3V Lithium Battery OEM

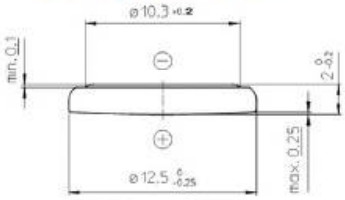
Technical Data Sheet

Specifications

Chemical System	Li / MnO_2
Nominal Voltage	3 V
Nominal Capacity	40 mAh
Standard Discharge Current	0.1 mA
Max. Cont. Discharge Current	1 mA
Average Weight	~ 0.8 g
Operating Temperature*	-30 - +70°C
Self Discharge at 23°C	< 1% / year

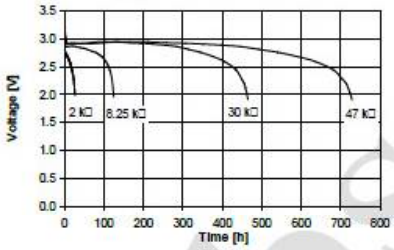
Dimensions

(According to IEC 60086)

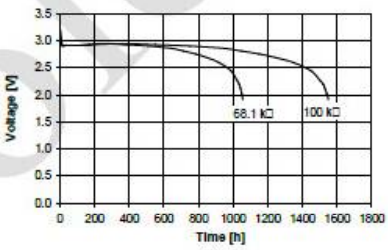


Performance

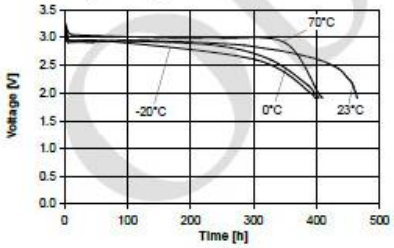
Discharge performance at 23°C



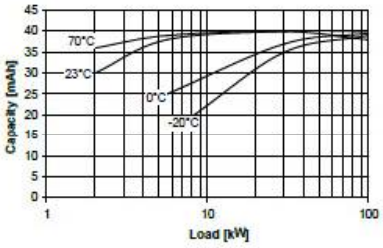
Discharge performance at 23°C



Temperature performance Load 30kW



Cell capacity at various loads



*In applications where the battery is exposed to temperatures above 60 °C, please contact Renata for consultancy.
*Average discharge current for a yield of 70% of the nominal capacity with cut-off voltage of 2.0V at 23°C.

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obsolete

Annex V Datasheet CR1220 MFR "new"

renata batteries

CR1220 MFR

3V Lithium Battery OEM

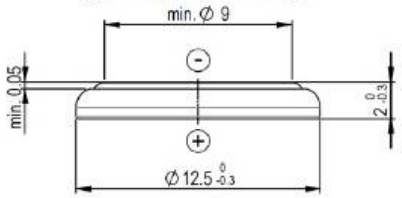
Technical Data Sheet

Specifications

Chemical System	Li / MnO_2
Nominal Voltage	3 V
Nominal Capacity	35 mAh
Standard Discharge Current	0.1 mA
Max. Cont. Discharge Current**	1 mA
Average Weight	~ 0.9 g
Operating Temperature*	-30 - +70°C
Self Discharge at 23°C	≈ 1% / year

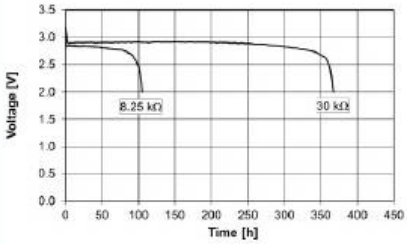
Dimensions

(According to IEC 60086)

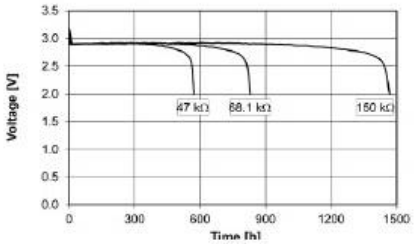


Performance

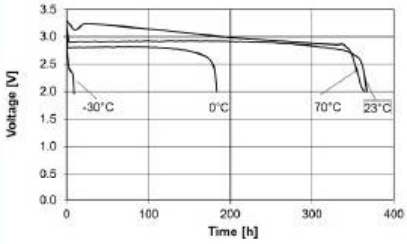
Discharge performance at 23°C



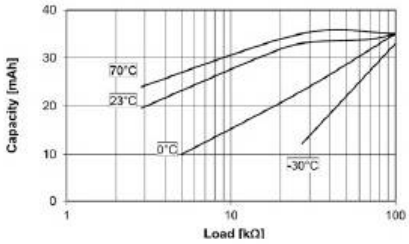
Discharge performance at 23°C



Temperature performance Load 30kΩ



Cell capacity at various loads



*In applications where the battery is exposed to temperatures above 60 °C, please contact Renata for consultancy.
**Average discharge current for a yield of 70% of the nominal capacity with cut-off voltage of 2.0V at 23°C.

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Itingen, March 2019

Notification of Change of Country of Origin: CR1216 MFR and CR1220 MFR naked cells/ PCN no. 190329

Dear valued customer,

Renata SA Switzerland herewith announces a Change of Country of Origin of the cells CR1216 MFR and CR1220 MFR.

The CR1216 MFR and CR1220 MFR lithium button cells can no longer be produced at the production site in Japan and will be transferred to Indonesia. In addition to the fact that the country of production changes (country of origin), the specification values have also changed slightly because of another production facility. The product change will take place from May 2019 onwards.

The transition to the new country of origin will be executed in rolling order. As of now last time buys of cells with the current COO (Japan) can be placed. The remaining cells will be allocated as long as the stock lasts (First In, First Out).

With this writing you are receiving the **PCN form incl. the datasheets of the cells for comparison**.

The site where tabs are assembled and the dimensions of the tabbed cell configurations however will remain the same.

We kindly ask you to distribute this information to your customers and to any person concerned within your organization accordingly. Should you have any questions or require further information regarding the change or additional information, please do not hesitate to contact your Renata Sales responsible.

Yours sincerely

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