

 A COMPANY OF THE SWATCH GROUP	Product Change Notification PCN	No. 190329-01 Publishing Date: March 29th 2019
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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 –	
	☒ technical modification	
	☐ Normative requirements	
	☐ Cost efficiency	
	☐ Second source	
	☐ Correction of the documents	
	☒ 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

Product Change Notification PCN

No. 190329-01

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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"



CR1216 MFR

3V Lithium Battery OEM

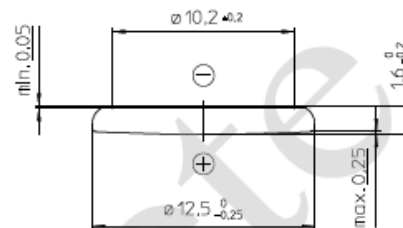
Technical Data Sheet

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

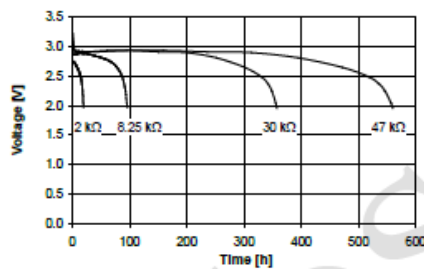
Dimensions

(According to IEC 60086)

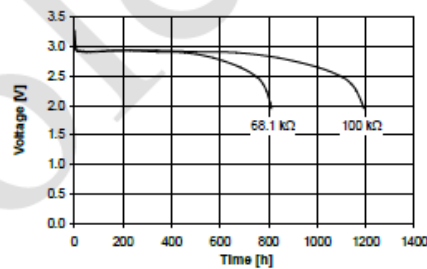


Performance

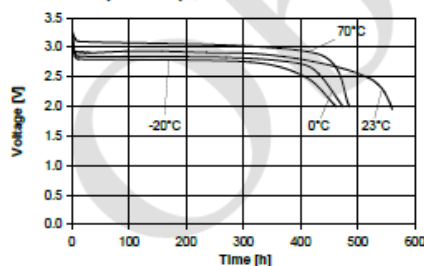
Discharge performance at 23°C



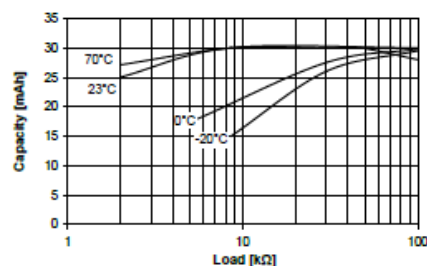
Discharge performance at 23°C



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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Annex III Datasheet CR1216 MFR "new"



CR1216 MFR

3V Lithium Battery OEM

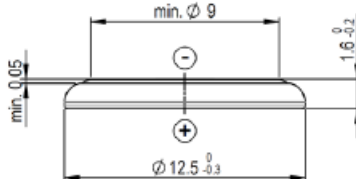
Technical Data Sheet

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

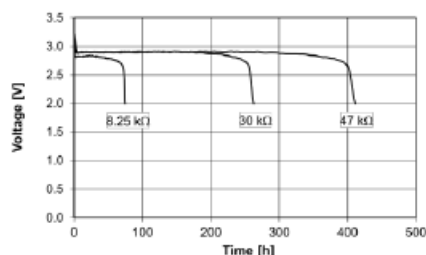
Dimensions

(According to IEC 60086)

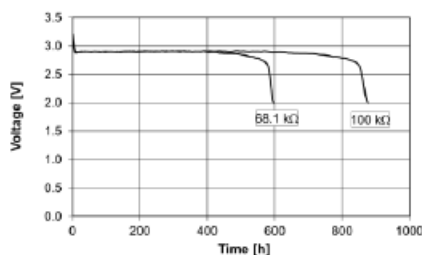


Performance

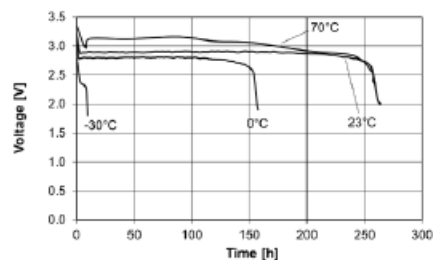
Discharge performance at 23°C



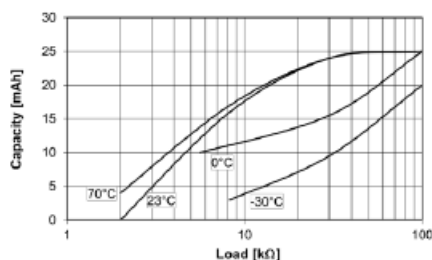
Discharge performance at 23°C



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”

CR1220 MFR

3V Lithium Battery OEM

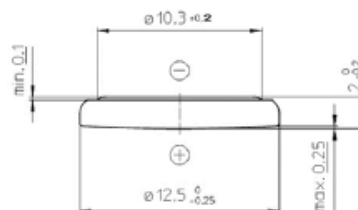
Technical Data Sheet

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

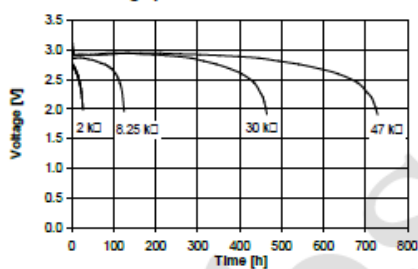
Dimensions

(According to IEC 60086)

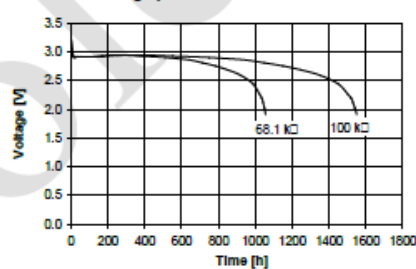


Performance

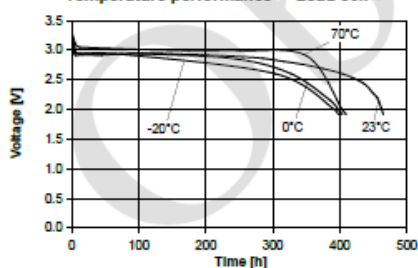
Discharge performance at 23°C



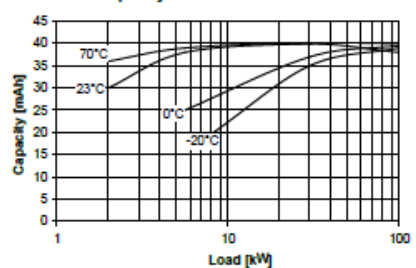
Discharge performance at 23°C



Temperature performance Load 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 V Datasheet CR1220 MFR "new"



CR1220 MFR

3V Lithium Battery OEM

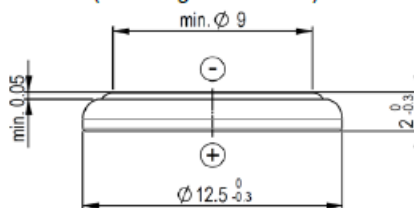
Technical Data Sheet

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

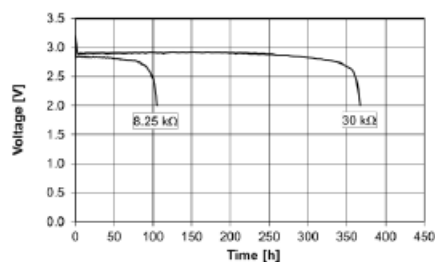
Dimensions

(According to IEC 60086)

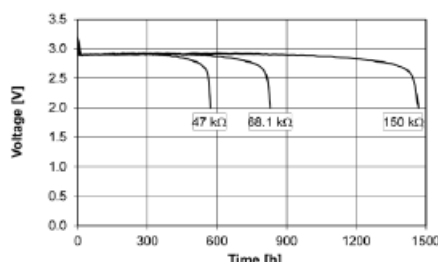


Performance

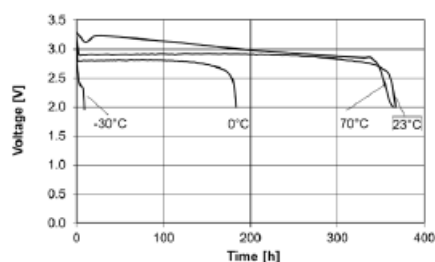
Discharge performance at 23°C



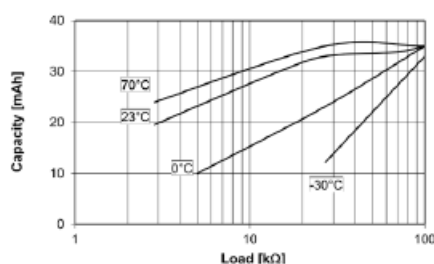
Discharge performance at 23°C



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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