

Änderungsmitteilung (CN)

Product Change Notification

Technologiepark 1 ~ D-66424
Homburg/Saar ~ Tel. +49-6841-9809-100
~ Fax +49-6841-9809-290

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Title [Title] Improved performance, new protection feature, new Thailand approval		Date [Datum] 12.Feb.2020	Ref. No. [Lfd. Nr.] CN_17_048	
Part Name [Teilebezeichnung]	RRC Article No. [RRC Art-Nr.]	Index	Customer Article No. [Kunden Art-Nr.]	Index
RRC2024	100497	-12		

Reason for Change [Grund für die Änderung]

Design [Design] Logistics [Logistik] Manufacturing Location [Fertigungsverlagerung]

Processing [Verfahren] Material [Material] Quality / Reliability [Qualität / Zuverlässigkeit]

Change Description [Beschreibung der Änderung]

1. Improved cell to increase the overall performance
 - a. Improved over charge current: 6.45A instead of 5.30A
 - b. Improved over charge temperature: 58°C instead of 55°C
 - c. New charge timeout feature: charging will be interrupted after 18hrs
 - d. Improved continuous discharge current: 8.00A from +25°C to +45°C instead of +25°C to +40°C
 - e. Improved continuous discharge current: 8.00A instead of 4.00A from -20°C to -10°C
 - f. Improved discharge over load: 20.83A instead of 14.00A
 - g. Improved short current protection: 38.90A instead of 35.00A
 - h. Improved discharge cut-off voltage: 2.50V instead of 2.75V
 - i. Updated EMC standard: The battery complies with EN55032:2015
 - j. Updated safety standard: The battery complies with IEC62133-2:2017

2. New protection feature

The Battery Life Management mechanism prevents the battery from being overcharged when the battery is significantly aged.

This protection feature is based on the "state of health" of the battery. The "state of health" (SOH) is the ratio of FullChargeCapacity() and DesignCapacity(). If the SOH drops down to less than 70%, the requested charge voltage of the smart battery will slightly decreased from 4.20V to 4.15V, allowing any smart charger to automatically react.

Battery Life Management is a safety feature which reduces the risk of age-related critical conditions.

3. New approval mark

The RRC2024 will comply with the country specific approval for Thailand and shows the corresponding TISI mark on the device label.

Identification of Change [Erkennen der Änderung]

Traceability is ensured by revision step (see label on the battery, the single box for each battery as well as on the outer box for 12 pieces of batteries).

Impact on Quality and / or Reliability [Auswirkungen auf die Qualität bzw. die Zuverlässigkeit]

Improvement of quality and reliability.

Battery pack is fully compatible to former revisions.

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SETTING STANDARDS
IN POWER SOLUTIONS

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Qualification Data [Nachweise]	<input checked="" type="checkbox"/> Available [verfügbar]	<input type="checkbox"/> Will be available [wird verfügbar sein]	<input type="checkbox"/> Not applicable [nicht zutreffend]
Samples [Muster]	<input checked="" type="checkbox"/> Available [verfügbar]	<input type="checkbox"/> Will be available [wird verfügbar sein]	<input type="checkbox"/> Not applicable [nicht zutreffend]
Estimated implementation Date* [Voraussichtliches Datum der Einführung]	Last Time Buy of pre-change product [letzte Bestellung für ungeändertes Produkt bis]	Last Time Ship of pre-change product [letzte Lieferung des ungeänderten Produkts]	
a) Mass-production samples for customer approval with all certifications available in February 2020	31.Mar.2020	Please contact your sales representative for arrangement	
b) High volume mass-production starts end of 2020			

*: The estimated implementation Date is the forecasted date that a customer may expect to receive the changed product. This is determined by the estimated date of inventory depletion on the Product Change Notification (CN) issue date. This may be affected by fluctuation in supply and demand. Consequently, although customers should be prepared to receive changed product on this date, RRC will continue to ship pre-changed product until a time in which inventory has been depleted. This may result in pre-changed product shipped to customers after this forecast date.

[Das voraussichtliche Datum der Einführung ist ein vorhergesagtes Datum an dem der Kunde das geänderte Produkt erhalten könnte. Dies bestimmt sich durch das voraussichtliche Datum des Lagerbestandsabbaus in Verbindung mit dem Herausgeben der Änderungsmitteilung / Product Change Notification (CN). Dieses wiederum kann beeinflusst werden durch Schwankungen bei Lieferung und Nachfrage. Konsequenterweise, obwohl der Kunde vorbereitet sein sollte das geänderte Produkt zu erhalten, wird RRC weiterhin das ungeänderte Produkt ausliefern, bis zu dem Zeitpunkt, an dem das Lager geräumt ist. Dieser Umstand könnte dazu führen, dass ein ungeändertes Produkt zu einem Zeitpunkt an den Kunden ausgeliefert wird, welcher zeitlich nach dem vorhergesagten Termin liegt.]

RRC Contact	Product Management	Quality
Name	Michael Müller	Ulrich Sonntag
Phone [Telefon]	+49-(0)6841-9809-330	+49-(0)6841-9809-140
FAX	+49-(0)6841-9809-280	+49-(0)6841-9809-280
email	sales@rrc-ps.de	quality@rrc-ps.de

RRC will deem this change accepted unless specific conditions of un-acceptance are provided in writing within 30 days from the date of this notice. All correspondence must be sent to the Quality Contact email address listed above.

[RRC wird diese Änderung als vom Kunden akzeptiert betrachten, wenn nicht innerhalb von 30 Tagen mit ausreichender Begründung in schriftlicher Form widersprochen wird. Jegliche Korrespondenz hierzu muss an die oben genannte email-adresse des zuständigen Qualitäts-Verantwortlichen gesendet werden.]

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The Netherlands



Elektrostraat 17
NL-7483 PG Haaksbergen

T: +31 (0)53 573 33 33
F: +31 (0)53 573 33 30
E: nl@texim-europe.com

Belgium



Zuiderlaan 14 bus 10
B-1731 Zellik

T: +32 (0)2 462 01 00
F: +32 (0)2 462 01 25
E: belgium@texim-europe.com

UK & Ireland



St. Mary's House, Church Lane
Carlton Le Moorland
Lincoln LN5 9HS

T: +44 (0)1522 789 555
F: +44 (0)845 299 22 26
E: uk@texim-europe.com

Germany North



Bahnhofstrasse 92
D-25451 Quickborn

T: +49 (0)4106 627 07-0
F: +49 (0)4106 627 07-20
E: germany@texim-europe.com

Germany South



Martin-Kollar-Strasse 9
D-81829 München

T: +49 (0)89 436 086-0
F: +49 (0)89 436 086-19
E: germany@texim-europe.com

Austria



Warwitzstrasse 9
A-5020 Salzburg

T: +43 (0)662 216 026
F: +43 (0)662 216 026-66
E: austria@texim-europe.com

Nordic region



Sdr. Jagtvej 12
DK-2970 Hørsholm

T: +45 88 20 26 30
F: +45 88 20 26 39
E: nordic@texim-europe.com

Italy



Via Matteotti 43
IT-20864 Agrate Brianza (MB)

T: +39 (0)39 971 3293
F: +39 (0)39 971 3293
E: italy@texim-europe.com

General information



info@texim-europe.com
www.texim-europe.com