 smart-battery-solutions.de Power wherever you want	UN 38.3 Test Summary for Batteries	Date	07.07.2020
	Name of battery: Batterie_12S4P_INR_18650_29E		
	Model numbers: 12S4P (F5)	Page	1 from 2

UN 38.3 Test Summary for Batteries

Document is for batteries which required:
UN3090, UN3091, UN3480, UN3481, UN3166 (if Hybrid) and UN3171

1. Name and physical description of battery
Batterie_12S4P_INR_18650_29E


2. Model numbers
12S4P (F5)

3. Manufacturer of battery	
Name	CAYAGO AG
Address	Leibnitzstraße 4 / 32108 Bad Salzufen/ Germany
Phone	+49 5222 8509 - 0
Email	info@seabob.com
Website	http://www.seabob.com

3.a Assembler of battery	
Name	Smart Battery Solutions GmbH
Address	Lindigstr.8a / 63801 Kleinostheim / Germany
Phone	+49 6027 990813 - 0
Email	info@smart-battery-solutions.de
Website	http://www.smart-battery-solutions.de

4. Test laboratory of battery	
Name	CETECOM ICT Services GmbH
Address	Untertuerkheimer Strasse 6-10, 66117 Saarbruecken, Germany
Phone	+49 681 5 98 - 0
Email	ict@cetecom-com
Website	http://www.cetecom.com

5. Test report ID and date	
Unique test report identification number	1-7345/13-01-03
Date of test report	2014-02-27

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	Name of battery: Batterie_12S4P_INR_18650_29E		
	Model numbers: 12S4P (F5)	Page	2 from 2


6. Description and parameters of battery	
Lithium-Ion battery	
Mass in gram (g +/- 5%):	3820
Indicate watt-hour rating (Wh):	493

7. State of Charge (SoC) for UN 3480 Lithium Ion batteries (only in air transport)
State of Charge (SoC) is max. 30 %

8. Test requirement
UN 38.3 Rev.5

9. Test results	Test passed
T1 - Altitude simulation	Yes
T2 - Thermal Test	Yes
T3 - Vibration	Yes
T4 - Shock	Yes
T5 - External Short Circuit	Yes
T6 - Impact / Crush	Not required
T7 - Overcharge	Yes
T8 - Forced Discharge	Not required

10. Composite batteries (more batteries in series or parallel / more module system)
No, single battery
Yes: Reference to test requirement 38.3.3 (f) and (g)

11. Place, Date	Position, Surname First name	Company stamp and signature
Kleinostheim, 07.07.2020	General Manager, Christian Lieb	 smart-battery-solutions.de <small>Power wherever you want</small> Smart Battery Solutions GmbH Lindigstraße 8a • D-63801 Kleinostheim www.smart-battery-solutions.de E-Mail: info@smart-battery-solutions.de Tel.: +49 6027 - 990 81 30 • Fax: +49 6027 - 990 81 38