

LITHIUM BATTERY TECHNICAL DATASHEET

CONFIDENTIAL

1. DOCUMENT TREACABILITY

	Revision	Date	Author	Modification
I	Α	01 st July 2021	GPO	First release

2. BATTERY GENERAL INFORMATION



Battery reference	E037AA00
Associated headlamp reference	NAO RL
Battery commercial name	R1
Architecture	Single cell (cylindrical)
Battery technology	Lithium Ion (Li-ion)
IEC61960 classification	1 INR 18650
Capacity	3200 mAh
Nominal voltage	3,7 Volts
Power	11,84 Wh
Battery pack dimensions	84 x 27 x 38 millimeters
Battery pack weight	76 grams
Battery pack energy density	716 Wh/l
Cell manufacturer	LG

• IEC 62133-2:2017:

Tests	Results
Continuous low rate charge	PASS
Vibration	PASS
Incorrect installation	PASS
External short circuit	PASS
Crush	PASS
Overcharge	PASS
Forced discharge	PASS
Continuous charging	PASS
Forced internal short circuit	PASS

	TÜV SUD PSB Pte Ltd	
	1 science Park Drive	
Tested by laboratory:	118 221 (SINGAPORE)	
	Tel: +65 6427 4700; Mail: <u>info.sg@tuvsud.com</u>	
	www.tuvsud.com/en-sg	
Test report number :	SG PSB-BT-02584	
Date of issue :	27th May 2021	

• UL 2054 :

Tests	Results
Abnormal charging	PASS
Abusive overcharge	PASS
Limited power source	PASS
Battery pack component temperature	PASS
Battery pack surface temperature	PASS
250N Steady force	PASS
Mold stress relief	PASS
Drop impact	PASS

Tested by laboratory :	TUV SUD certification and testing (China) No.11, Jukeng Rd. Juling village, Jutang District, Guanlan, Longhua new district, 518110 Shenzhen, CHINA www.tuvsud.com/en-sq	
Test report number :	68.282.20.0377.01	
Date of issue :	25 st May 2021	

• UL 1642 (Cell):

Tests	Results
Short –Circuit	PASS
Abnormal charging	PASS
Forced-discharged	PASS
Crush	PASS
Impact	PASS
Shock	PASS
Vibration	PASS
Heating	PASS
Temperature cycling	PASS
Low pressure – Altitude simulation	PASS
Projectile	PASS

	UL	
	202 Carnegie Center, Suite 301	
Tostad by Jaharatary	Princeton, New Jersey, 08540 (UNITED-STATES)	
Tested by laboratory :	Tel: +1.609.627.5300	
	Mail: EduNeeringInquiry@ul.com	
	https://www.ul.com/	
Test report number :	MH19896-Vol1	
Date of issue :	21st August 2014	

4. BATTERY TRANSPORTATION – UN38.3 COMPLIANCE

PETZL's product batteries have been successfully tested and comply with the UN Manual of Test and Criteria, Part III, subsection 38.3, Revision 3, Amendment 1 or any subsequent revision and amendment. Product batteries have been manufactured under a quality management program as specified in 2.9.4 of the UN Model Regulations.

UN38.3 Clause	Tests	Results
38.3.4.1 (T1)	Altitude simulation	PASS
38.3.4.2 (T2)	Thermal test	PASS
38.3.4.3 (T3)	Vibration	PASS
38.3.4.4 (T4)	Shock	PASS
38.3.4.5 (T5)	External short circuit	PASS
38.3.4.6 (T6)	Crush	PASS
38.3.4.7 (T7)	Overcharge	PASS
38.3.4.8 (T8)	Forced discharge	PASS

PETZL product cells are rated at 20 Watt-hours or less and batteries are rated at 100 Watt-hours or less. PETZL products meet the requirements for transportation under:

- UN Model Regulations Special Provisions 188 and 230
- International Civil Aviation Organization (ICAO) Technical Instructions and the International Air Transport Association (IATA) Dangerous Goods Regulations Packing Instructions:
 - 965 Section IB or Section II (UN3480, Lithium ion batteries at a state of charge (SOC) not exceeding 30%)
 - 966 Section II (UN3481, Lithium ion batteries packed with equipment)
 - 967 Section II (UN3481, Lithium ion batteries contained in equipment)
- International Maritime Organization (IMO) Special Provisions 188 and 230
- European Agreement Concerning the International Carriage of Dangerous Goods by Road (ADR) Special Provisions 188 and 230.

5. CONTACT INFORMATION

Please find your local contact information on the PETZL's website at www.petzl.com

6. SIGNATURE

PETZL certify, under its sole responsibility, that all the information which are provided above are valid and true to the best of our knowledge.

Place of signature : CROLLES (FRANCE) NAME : GUILLAUME PAVERO

Date of signature: 01th July 2021 TITLE: REGULATORY COMPLIANCE MANAGER

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RCS Grenoble 388 381 642 / SAS au Capital de 688.440 €