



LITHIUM BATTERY
TECHNICAL DATASHEET
CONFIDENTIAL

1. DOCUMENT TREACABILITY

Revision	Date	Author	Modification
A	16 th Dec 2019	G.PAVERO	First release
B	24 th April 2020	G.PAVERO	Delete DC + MSDS

2. BATTERY GENERAL INFORMATION



Battery reference	E092DA00 / E810BA00 (Model type 1NCA103450-C001x)
Associated headlamp reference	SWIFT RL ; SWIFT RL PRO
Battery commercial name	ACCU SWIFT RL
Architecture	Single cell (prismatic)
Battery technology	Lithium Ion (Li-ion)
IEC61960 classification	1NCA103450
Capacity	2350 mAh
Nominal voltage	3,6 Volts
Power	7,8 Wh
Battery pack dimensions	10 x 34 x 50 millimeters
Battery pack weight	0,050 grams
Battery pack energy density	456 Wh/l
Cell manufacturer	PANASONIC cell, pack integrated by PANASONIC INDUSTRY EUROPE Robert-Koch-Strasse 100 85521 Ottobrunn (GERMANY)

3. BATTERY COMPLIANCE SUMMARY

- IEC 62133:2012 and/or 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

Tested by laboratory :	TÜV SUD PSB Pte Ltd 1 science Park Drive 118 221 (SINGAPORE) Tel : +65 6427 4700 ; Mail : info.sg@tuvsud.com www.tuvsud.com/en-sg
Test report number :	SG PSB-BT-01178-A1
Date of issue :	13th May 2019

- 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

Tested by laboratory :	UL 202 Carnegie Center, Suite 301 Princeton, New Jersey, 08540 (UNITED-STATES) Tel : +1.609.627.5300 Mail : EduNeeringInquiry@ul.com https://www.ul.com/
Test report number :	MH12210
Date of issue :	05th October 2012

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 : **24th April 2020**

TITLE : **REGULATORY COMPLIANCE MANAGER**


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