



LITHIUM BATTERY  
TECHNICAL DATASHEET  
**CONFIDENTIAL**

## 1. DOCUMENT TREACABILITY

Revision	Date	Author	Modification
A	10 <sup>th</sup> Dec 2019	G.PAVERO	First release
B	11 <sup>th</sup> Dec 2019	G.PAVERO	Add headlamp reference + Contact information
C	16 <sup>th</sup> Dec 2019	G.PAVERO	Add HF40R headlamp
D	24 <sup>th</sup> April 2020	G.PAVERO	Delete DC + MSDS

## 2. BATTERY GENERAL INFORMATION



Reference	E99ACA (Petzl Model ID682)
Associated headlamp reference	ACTIK CORE, TACTIKKA CORE, HF40R
Battery commercial name	CORE
Architecture	Single cell (1 prismatic cell)
Battery technology	Lithium-Ion (Li-ion)
IEC61960 classification	1ICP9/29/36
Capacity	1250 mAh
Nominal voltage	3,6 Volts
Power	4,5 Wh
Battery pack dimensions	9 x 29 x 36 millimeters
Battery pack weight	0,023 kilograms
Battery pack energy density	479 Wh/l
Cell manufacturer	PANASONIC, Integrated by ICON ENERGY : Block A, 4/F, A B 5/F Jinmeiwei Industrial Park, Guanlan Hi-Tech industrial Park, Shangkeng Community, Guanlan Town, Baoan District, Shenzhen, CHINA.

### 3. BATTERY COMPLIANCE SUMMARY

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- 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

<b>Tested by laboratory :</b>	<p style="text-align: center;">DEKRA Meander 1051, 6825 MJ, Ahhem (NETHERLANDS) Tel : +31 88 96 83000 Mail : product.certification@dekra.com <a href="https://www.dekra-product-safety.com/">https://www.dekra-product-safety.com/</a></p>
<b>Test report number :</b>	NL-42196
<b>Date of issue :</b>	08 <sup>th</sup> July 2016

- 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

<b>Tested by laboratory :</b>	<p style="text-align: center;">SGS 588 West Jindu Road, Xinqiao Songjiang, 201612 Shanghai, China Tel : +86 (0) 21 6140 2669 Mail : Contact only via website <a href="https://www.sgs.com/">https://www.sgs.com/</a></p>
<b>Test report number :</b>	SHES180200221601
<b>Date of issue :</b>	21 <sup>st</sup> May 2018

- **UL 1642 :**

<b>Tests</b>	<b>Results</b>
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

<b>Tested by laboratory :</b>	<p style="text-align: center;">UL            202 Carnegie Center, Suite 301            Princeton, New Jersey, 08540 (UNITED-STATES)            Tel : +1.609.627.5300            Mail : EduNeeringInquiry@ul.com  <a href="https://www.ul.com/">https://www.ul.com/</a></p>
<b>Test report number :</b>	MH12210
<b>Date of issue :</b>	22 <sup>nd</sup> October 2013

## 4. BATTERY TRANSPORTATION – UN38.3 COMPLIANCE

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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

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Please find your local contact information on the PETZL's website at [www.petzl.com](http://www.petzl.com)

## 6. SIGNATURE

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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 : **24<sup>th</sup> April 2020**

TITLE : **REGULATORY COMPLIANCE MANAGER**

  
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*Guilavero*