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|  | Total Quality Management System Procedures | | Document No: | Issue No: Revision No: 1 0 |
| | UN38.3 Lithium Test Summary | | | |
| Created on: 18 th December 2019 | Date of Revision: 18 th December 2019 | | Designed by: Paul Stirling | Page No 1 of 1 |
| Amendment Reference No: | | Change Approved by: | | |

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| Heartsine UN38.3 Test Summary | | | |
| The following document contains a test summary for Lithium Cells or Batteries in Accordance with sub-section 38.3 of the UN Manual of Tests and Criteria | | | |
| Product Manufacturer | PMBL Limited Unit D Leach Road Chard Business Park Chard Somerset, UK TA20 1FA | Telephone: | 01460 66366 |
| | | Email: | solutions@pmbL.co.uk |
| | | Web: | www.pmbL.co.uk |

PMBL Limited products that are manufactured from Lithium Cells have been successfully tested and comply with sub-section 38.3 of the UN Manual of Tests and Criteria.

| Performed Tests* | | | |
|-------------------------|----------|------------------------|---------|
| Test No | Test Ref | Test Description | 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 | Impact / Crush | Pass |
| 38.3.4.7 | T7 | Overcharge | Pass |
| 38.3.4.8 | T8 | Forced Discharge | Pass |

The UN38.3 tests were performed by one of the following test houses and were tested to the UN Manual Test and Criteria Revision 3 Amendment 1 or subsequent revisions or amendments

**Any tests that have been identified on the main UN38.3 test reports as being "Not Applicable" for that report is referenced on the Product Test Information Sheet (Page 2 onwards)*

| Test House Ref | Company Name | Address & Contact Details |
|----------------|--|--|
| A2 | Shenzhen SEM Test Technology Co Ltd | 1/F Room 101 Building 1 Hongwei Industrial Park Liuxian'er Road, Block 70 Bao'an District, Shenzhen, Guangdong, China T: +86 0755 33663308 E: admin@semtest.com.cn |
| A4 | Pony Testing International Group (Shenzhen Co Ltd) | 1F Building 6 Zhongxing Industry City Chuangye Road Nanshan District, Shenzhen Guangdong, China |

| Product Test Information (Wh = Nv x Cap) | | | | | | | | | | |
|---|-----------|--|----------|-------------|--------------------|------------|---------------------|------------------|------|-----------|
| Model Number | Chemistry | Description | Mass (g) | Rating (Wh) | Test Report Number | Test House | Test Not Applicable | Test Report Date | MSDS | Drop Test |
| H017-013-169-1 (Adult) Pad-Pak-01, Pad-Pak-03 | Li Metal | Battery 18V 1550mAh (6x Varta CR123A Cells) | 105.6 | 27.9 | STRT18049010S | A2 | T7 | 10/04/2018 | Y | Y |
| H017-013-239-2 (Aviation) Pad-Pak-07 | Li Metal | Battery 18V 1550mAh (6x Varta CR123A Cells) | 105.6 | 27.9 | STR18079273S | A2 | T7 | 01/08/2016 | Y | Y |
| H023-013-025-4 (Paediatric) Pad-Pak-02, Pad-Pak-04 | Li Metal | Battery 18V 1550mAh (6x Varta CR123A Cells) | 105.6 | 27.9 | STRT18049012S | A2 | T7 | 10/04/2018 | Y | Y |
| H036-013-012-1 (Universal Trainer) | Li Ion | Battery 3.7V 2600mAh (1x Sanyo UR18650F, Sanyo 186502Y or Samsung ICR18650-26F) | 49.3 | 9.62 | MN128Q5M86D57721 | A4 | | 07/01/2020 | Y | Y |

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| Signature |  | Position | Quality Control Manager |
| Print | Paul Stirling | Date | 20 th April 2020 |