

# Declaration of Conformance (DoC)

UN Manual of Tests and criteria sub-section UN38.3 and IEC 62281:2019  
– Safety of primary and secondary lithium cells and batteries during transport



## SECTION I-MANUFACTURER INFORMATION

### SEALED ENERGY SYSTEMS

72, HSIDC Industrial Area, Jagadhri Road,  
Ambala Cantt - 133 006 (Haryana), India  
Contact No.: +91-0171-2699054

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Rev.: 00

## SECTION II- PRODUCT INFORMATION

Model name: SE-2057-2  
Product classification: Lithium ion rechargeable Battery pack

|                    |             |             |             |             |             |
|--------------------|-------------|-------------|-------------|-------------|-------------|
| Ref Models:        | SE20572NR22 | SE20572NR26 | SE20572NR29 | SE20572NR32 | SE20572NR35 |
| Nominal voltage:   | 7.2V        | 7.2V        | 7.2V        | 7.2V        | 7.2V        |
| Rated capacity:    | 8800mAh     | 10200mAh    | 11400mAh    | 12800mAh    | 13600mAh    |
| Nominal Energy:    | 63.36Wh     | 73.44Wh     | 82.08Wh     | 92.16Wh     | 97.92Wh     |
| Weight of product: | 428g        | 428g        | 428g        | 428g        | 428g        |

## SECTION III- CONFORMANCE INFORMATION

The product in section II complies with

**UN Manual of Test criteria ST/SG/AC.10.11/ Rev.6/Amend.1 Section 38.3, 6th Revision and IEC 62281:2019 – Safety of primary and secondary lithium cells and batteries during transport**

## SECTION IV- UN38.3 TEST SUMMARY

| <b>Test Lab:</b>  | <b>Nemko India (Test Lab) Pvt. Ltd.</b><br>Plot No. 2, DFL Ind. Estate-1, Sector-37, Faridabad-121003, Haryana<br>Tel : +91-129 4905500, Email : india@nemko.com |  |             |
|---|--|--|-------------|
| <b>Test Report No. &amp; Date:</b>  | NI/2003011 dated 25.05.2020 and NI/200310 dated 25.05.2020   |  |             |
| UN Clause No.   | IEC Clause No.   | Requirement & Test                                       | Result      |
| 38.3.4.1  | 62281.6.4.1  | <b>T-1</b> , Altitude simulation test > 11.6kPa          | <b>Pass</b> |
| 38.3.4.2  | 62281.6.4.2  | <b>T-2</b> , Thermal Cycling, 72± 2°C to -40± 2°C        | <b>Pass</b> |
| 38.3.4.3  | 62281.6.4.3  | <b>T-3</b> , Vibration, 7Hz and 200Hz in X,Y,Z positions | <b>Pass</b> |
| 38.3.4.4  | 62281.6.4.4  | <b>T-4</b> , Shock, 150g for 6ms & 50g for 11ms          | <b>Pass</b> |
| 38.3.4.5  | 62281.6.4.5  | <b>T-5</b> , External Short-circuit                      | <b>Pass</b> |
| 38.3.4.6  | 62281.6.4.6  | <b>T-6</b> , Impact/crush                                | <b>Pass</b> |
| 38.3.4.7  | 62281.6.5.1  | <b>T-7</b> , Overcharge                                  | <b>Pass</b> |
| 38.3.4.8  | 62281.6.5.2  | <b>T-8</b> , Forced Discharge                            | <b>Pass</b> |
| 62281.6.6   | 62281.6.6.1  | <b>P-1</b> , Packing test, Drop Test 1.2m                | <b>Pass</b> |
| Pass Summary: No leakage, No Venting, No Short-Circuit, No Rupture, No Explosion, No Fire |  |  |             |

Signed:  
Authority: Approved by Authorized Signatory  
Date: 25<sup>th</sup> May, 2020