Date : 2024-01-31

# CERTIFICATE OF COMPLIANCE

| This certificate of compliance validates the following | | | |
|---|---|---|---|
| **TEST REPORT NUMBER** **'Assessment Reports' are not acceptable** | HELES2204000484-1 | **CERTIFICATE NUMBER** | FI/41835 |
| **DATE OF ISSUE** | 2023-11-20 | **DATE OF ISSUE** | 2023-11-22 |
| **DATE OF EXPIRY** | By expiration of the standard | **DATE OF EXPIRY** | 2025-02-16 |
| **Manufacturer details** | | | |
| **NAME OF FACTORY/ MANUFACTURER** | Oy Hedengren Security Ab<br>Lauttasaarentie 50, FI-00200<br>Helsinki, Finland | **NAME OF THE BRAND** | NeptoLux |
| **FACTORY ADDRESS / REGION** **(STREET / TOWN / CITY / COUNTRY )** | 1. Laukamo Group Oy<br>Teollisuustie 1<br>FI-31400, Somero, Finland<br><br>2. Stera Technologies Oy<br>Patenttikatu 1<br>FI-21100, Naantali, Finland | **MODEL / NO** | NEPTO-3K |
| **WEBSITE** | https://www.hedengren.com/ | **LOGO ON THE PRODUCT** | NeptoLux |
| **TEL** | +358 207 638 000 | **EMAIL** | hedengren@hedengren.fi |

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| Product Details From Test Report | | Reference Test Report page NO |
|---|---|---|
| **DESCRIPTION OF THE PRODUCT** (TECHNICAL DETAILS FROM TEST REPORT, SUCH AS ACTUAL FIRE RATINGS/DIMENSIONS/THICKNESS/ SENSITIVITY ETC) | Low Power Supply Systems | 1 |
| **TEST STANDARD** (SUCH AS ASTM/BS EN/ DN ETC) | EN 50171:2001 | 1 |
| **TEST DESCRIPTION** | The product testing was done at the following testing laboratory:<br>SGS Fimko Ltd.<br>Takomotie 8<br>FI-00380 Helsinki<br>Finland<br><br>The following clauses were checked during the testing (if applicable):<br>- Types of central power supply systems<br>- Operating conditions and requirements<br>- Construction (Components and their ratings)<br>- Information for installation and operation of power supply systems | |
| **SPECIFICATION OF TEST SPECIMEN** | 230VAC – 50 Hz<br>1-2 x Output 40VDC, max 2A, max 80W<br>Batteries: 2 x 12V 7Ah or 2 x 12V 20Ah | 1 |
| **TEST RESULT** (SUCH AS PASSED CRITERIA___/ COMPLIED TO___/ DURATION___/OBSERVATION___/ETC) | All clauses as per the relevant standards mentioned in the test report have been tested and passed. The certification is issued based on the product meeting the full criteria of the test.<br><br>The product fulfils the requirements of EN 50171:2001. | |

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| **PRODUCT APPLICATION GUIDELINE (END USE)**<br>**(CLEARLY STATE THE END USE WITH SPECIFIC APPLICATION, SUCH AS EXACT FIRE RATING/TO BE INSTALLED IN___/TO BE INSTALLED AT____/TO BE CONNECTED WITH____/TO BE INSTALLED WITH___ ETC ALONG WITH ANY WARNINGS SUCH AS NOT TO BE USED IN___/NOT TO BE INSTALLED AT___/ NOT TO BE INSTALLED WITH___ETC.** | The equipment under test is a low power central supply system (LPS-System) for emergency lighting.<br><br>The maximum number of luminaires / line is 127. Total number of luminaires is 254 with second line card installed. Maximum number of luminaires depend on power consumption of luminaires. The central can be configurated as a central battery escape luminaire system or/and a control and monitor system for self-contained escape luminaires. The configuration is done with the Hedengren Install programming tool.<br><br>Under normal condition, where the 230V AC mains supply is present, the equipment control and charger circuits board is fed with a 33 V AC SELV voltage through a transformer to maintain the charge level of the battery system. The charge voltage for self-contained escape luminaires is fed from the central's circuit board.<br><br>In the case of failure of the normal supply, the central power supply system switches to battery supply. In this case, the self-contained luminaires are switched to active state and the luminaires use their internal batteries as power source. Is case of central battery configuration, the escape luminaires switch to active state and use the lead batteries in the central as power source.<br><br>During active state, the central unit is supplied by the lead batteries until the mains voltage is present or the voltage of the batteries drop to the low discharge limit.<br>The central unit has a user interface panel with display and push buttons.<br><br>The central power supply system contains of the following monitoring, test, and reporting functions:<br>- testing the luminaires automatically, monitoring their operation, and indicating faulty luminaires' addresses.<br>- testing the batteries of the luminaires automatically.<br>- all tests can be activated also manually.<br>- a learning system, luminaires can be added and removed after commissioning.<br>- status- and error warnings via relay connections to building management systems.<br>- logging of events and indications in non-volatile memory.<br>- all functions available from the screen user interface. | 5 |

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| | The default PCB configuration of the central unit is for one line (Line A). An optional line card can be mounted to the main PCB to add a second line (Line B). Each line has a maximum supply current of 2,0 A and nominal supply voltage of 40 VDC.<br><br>The central unit batteries specified are 2 x 12 V 7Ah for basic configuration using one luminaire address line (Line A) and 2 x 12 V 20 Ah for configuration with extra luminaire address line card (Lines A + B).<br><br>The output ports OUT1 to OUT 4 equipped with relays RL1 to RL4 are specified for max 25 VAC / 60 VDC<br>SELV voltage.<br><br>The product is part of automatic test system for battery powered emergency lighting. The product has been tested as a part of the automatic test system according to the standard EN 62034:2012. For the details see the certificate FI/41870 (dated 2024-01-02) and the test report HELES2204000483-1 (dated 2023-12-21). | |

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| Laboratory and Certification body details | | | |
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| **NAME OF CERTIFICATION BODY** | SGS Fimko Ltd. | **NAME OF TEST FACILITY** | SGS Fimko Ltd. |
| **CERTIFICATION BODY ADDRESS / REGION** (STREET / TOWN / CITY / COUNTRY ) | Takomotie 8<br>FI-00380 Helsinki<br>Finland | **TEST FACILITY ADDRESS / REGION** (STREET / TOWN / CITY / COUNTRY ) | Takomotie 8<br>FI-00380 Helsinki<br>Finland |
| **WEBSITE** | www.sgs.com/en-fi | **WEBSITE** | www.sgs.com/en-fi |
| **TEL** | +358-9-696361 | **TEL** | +358-9-696361 |
| **EMAIL** | sgs.fimko@sgs.com | **EMAIL** | sgs.fimko@sgs.com |
| **ACCREDITED BY** (NAME OF ACCREDITATION BODY WHICH ISSUED ACCREDITATION TO THE CERTIFICATION BODY, ALONG WITH WEBSITE) | FINAS<br>http://www.finas.fi | **ACCREDITED BY** (NAME OF ACCREDITATION BODY WHICH ISSUED ACCREDITATION TO THE LABORATORY, ALONG WITH WEBSITE) | FINAS<br>http://www.finas.fi |
| **AS PER** (STANDARD TO WHICH THE CERTIFICATION BODY IS ACCREDITED TO) | EN ISO/IEC 17065 | **AS PER** (STANDARD TO WHICH YOUR ORGANIZATION IS ACCREDITED TO) | EN ISO/IEC 17025 |
| **VALIDITY** (EXPIRY DATE OF CERTIFICATION BODY ACCREDITATION) | 2026-03-20 | **VALIDITY** (EXPIRY DATE OF LABORATORY ACCREDITATION) | 2027-04-20 |
| **REFERENCE NUMBER:** (CERTIFICATION BODY ACCREDITATION REFERENCE NUMBER TO VERIFY ON THE ACCREDITOR'S WEBSITE) | S003 | **REFERENCE NUMBER:** (THE LABORATORY ACCREDITATION REFERENCE NUMBER TO VERIFY ON THE ACCREDITOR'S WEBSITE) | T004 |
| **CERTIFICATION MARK** | FI | | |

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| (ENDORSEMENT) TO BE SIGNED BY MANUFACTURER | | | |
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| **NAME OF MANUFACTURER'S SIGNATORY** | Jan Herranen | **SIGNATURE** | |
| **EMAIL / TEL** | Jan.herranen@hedengren.com<br>+358406105176 | **FACTORY OFFICIAL SEAL** | HEDENGREN Security |
| **NOTES:** I Undertake that all data and information provided are genuine and accurate | | | |

| (ENDORSEMENT) TO BE SIGNED BY CERTIFICATION BODY | | | |
|---|---|---|---|
| **NAME OF CERTIFICATION BODY SIGNATORY** | Peter Fagerstedt | **SIGNATURE** | |
| **EMAIL / TEL** | peter.fagerstedt@sgs.com<br>+358504081397 | **CERTIFICATION BODY OFFICIAL SEAL** | SGS<br>SGS Fimko Ltd.<br>SGS Fimko Oy |
| **NOTES:** I Undertake that all data and information provided are genuine and accurate | | | |

**ATTACHMENTS:**

- **COPY OF 'CERTIFICATE OF COMPLIANCE' ISSUED BY CERTIFICATION BODY (OLD OR NEW)**