




2218355.01-UAE

## CERTIFICATE OF COMPLIANCE

This certificate of compliance validates the following			
<b>TEST REPORT NUMBER</b> 'Assessment Reports' are not acceptable	2198664.50A 2150756.54/55	<b>CERTIFICATE NUMBER</b>	2218355.01-UAE refers to ENEC-Certificate: 2198664.01
<b>DATE OF ISSUE</b>	09-12-2016 20-09-2012	<b>DATE OF ISSUE</b>	29-06-2017
<b>DATE OF EXPIRY</b>	By expiration of the standard(s)	<b>DATE OF EXPIRY</b>	+ 2 years from date of issue
Manufacturer details			
<b>NAME OF FACTORY/ MANUFACTURER</b>	CEAG Notlichtsysteme GmbH	<b>NAME OF THE BRAND</b>	EATON/CEAG
<b>FACTORY ADDRESS / REGION</b> (STREET / TOWN / CITY / COUNTRY )	Sen.-Schwartz-Ring 26 D 59494 GERMANY	<b>MODEL / NO</b>	ZB-S/xxx US-S/xxx
<b>WEBSITE</b>	www.eaton.com	<b>LOGO ON THE PRODUCT</b>	
<b>TEL</b>	+49 2921 69 0	<b>EMAIL</b>	Info-n@ceag.de



Product Details From Test Report		Reference Test Report NO
<b>DESCRIPTION OF THE PRODUCT</b> (TECHNICAL DETAILS FROM TEST REPORT, SUCH AS ACTUAL FIRE RATINGS/DIMENSIONS/THICKNESS/ SENSITIVITY ETC)	Central Power Supply for emergency lighting luminaires & exit signage. 230V-50/60Hz, 400/230V-50/60Hz, to be used with 216V batteries from 5,5Ah up to 1000Ah capacity.	
<b>TEST STANDARD</b> (SUCH AS ASTM/BS EN/ DN ETC)	Code no: IEC-60950-1: 2005 (second edition) + Am 1:2009 + Am 2:2013 Title: Information Technology Equipment - Safety - Part 1: General Requirements Scope: This standard is applicable to mains-powered or battery-powered information technology equipment, including electrical business equipment and associated equipment, with a rated voltage not exceeding 600 V.	2198664. 50A
	Code no: EN-50171: 2001 Title: Central Power Supply Systems Scope: European product standard specifies requirements for Central Power Supply systems for emergency lighting & exit signage, such as electrical safety, design philosophy, re-charge capacity for batteries, electrical isolation, switch-over time, overload capacity and deep discharge protection to protect the batteries.	2150756. 54
	Code no: EN50272-2:2001 Title: Safety requirements for secondary batteries and battery installations. Part 2: Stationary batteries. Scope: European product & application standard for stationary batteries and battery installations, such as charging methods, electrical safety, devices to disconnect batteries, short circuit protection, safety measures against explosion risks, ventilation requirements, requirements for battery cabinets.	2150756. 55
<b>TEST DESCRIPTION</b>	Product test were done by Dekra Certification B.V. Meander 1051 6825 MJ Arnhem The Netherlands  Code no: IEC-60950-1: 2005 (second edition) + Am 1:2009 + Am 2:2013 The tests according the following chapters were part of the certification process: 1. General requirements 2. Protection from hazards 3. Wiring, connections and supply 4. Physical requirements 5. Electrical requirements and simulated abnormal conditions	



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	<p>Code no: EN50171-2001 The following tests were part of the certification process:</p> <ul style="list-style-type: none"> <li>- Product markings &amp; warning labels</li> </ul> <p>Operating conditions and requirements</p> <ul style="list-style-type: none"> <li>- Permissible switch-over time</li> <li>- Indications operating conditions</li> <li>- Construction</li> <li>- Mechanical strength</li> <li>- IP Rating</li> <li>- Resistance against heat and fire</li> <li>- Interconnection &amp; wiring</li> <li>- Construction of battery compartment/cabinet</li> <li>- battery chargers/ battery charging integrity</li> <li>- permissible recharging time</li> </ul> <p>Switching &amp; protection devices</p> <ul style="list-style-type: none"> <li>- Output voltage</li> <li>- Overload capacity</li> <li>- Deep Discharge protection</li> </ul> <p>Monitoring &amp; Supervising devices</p> <ul style="list-style-type: none"> <li>- Alarm indicators</li> <li>- Electrical strength</li> <li>- Battery circuit monitoring</li> <li>- Isolation failure test device</li> <li>- Equipment markings &amp; warning labels</li> </ul> <p>Code no:EN50272-2:2001 The following tests were part of the certification process:</p> <ul style="list-style-type: none"> <li>- Product markings &amp; warning labels</li> </ul> <p>Protection against electrical shock</p> <ul style="list-style-type: none"> <li>- protection against direct and in-direct contact</li> <li>- IT System test</li> <li>- Protection against electrical separation</li> </ul> <p>Disconnect and Separation</p> <ul style="list-style-type: none"> <li>- Removable fuses</li> <li>- Construction of fuse holders</li> </ul> <p>Protection of short circuit</p> <ul style="list-style-type: none"> <li>- Battery terminals &amp; fuses</li> <li>- Internal wiring</li> </ul> <p>Provisions against explosion hazards</p> <ul style="list-style-type: none"> <li>- Gas generation</li> <li>- Ventilation requirements</li> <li>- Charging/Over-Charging/Fault conditions</li> </ul> <p>Provisions against Electrolyte hazards</p> <ul style="list-style-type: none"> <li>- Electrolyte and water</li> <li>- Protective measures</li> </ul> <p>Accommodation &amp; Housing</p> <ul style="list-style-type: none"> <li>- Battery cabinets/compartments</li> </ul>	
<p><b>SPECIFICATION OF TEST SPECIMEN</b></p>	<p>The complete above mentioned tests have been carried out on models considered as representative of the system range</p> <p>The differences among the models in the range consist of different possible configurations of the standard components.(Modular build System)</p>	



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<p><b>TEST RESULT</b> (SUCH AS PASSED CRITERIA ___/ COMPLIED TO ___/ DURATION ___/OBSERVATION ___/ETC)</p>	<p>All applicable clauses as mentioned in the Test Report have passed the test.</p>	
<p><b>PRODUCT APPLICATION GUIDELINE (END USE)</b> (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.</p>	<p>Central Power Supplies for Emergency Lighting &amp; Exit Signage are supplying the connected emergency lighting luminaires and exit signage under both normal and power failure conditions, ensuring that a building can be safely evacuated. The Central Power Supplies are typically installed in electrical rooms with restricted access for unskilled and untrained persons. Installation and programming of the systems has to be done by skilled persons only. Batteries must be serviced and tested according to local regulations and manufacturers statements.</p> <p>Compatible with EATON range of Emergency Lighting luminaires See appendix A for related certification details and compatible order codes. A compatibility of further luminaires can be confirmed if the compatibility in the UAE-Certificate of the luminaires is confirmed in relation to this UAE-certificate. It is mandatory that such a luminaire UAE-Certificate is signed by DEKRA.</p>	



Laboratory and Certification body details			
<b>NAME OF CERTIFICATION BODY</b>	DEKRA Certification B.V.	<b>NAME OF TEST FACILITY</b>	DEKRA Certification B.V.
<b>CERTIFICATION BODY ADDRESS / REGION</b> (STREET / TOWN / CITY / COUNTRY )	Meander 1051 6825 MJ Arnhem The Netherlands	<b>TEST FACILITY ADDRESS / REGION</b> (STREET / TOWN / CITY / COUNTRY )	Meander 1051 6825 MJ Arnhem The Netherlands
<b>WEBSITE</b>	www.dekra-certification.com	<b>WEBSITE</b>	www.dekra-certification.com
<b>TEL</b>	+31 88 96 83000	<b>TEL</b>	+31 88 96 83000
<b>EMAIL</b>	lighting@dekra.com	<b>EMAIL</b>	lighting@dekra.com
<b>ACCREDITED BY</b> (NAME OF ACCREDITATION BODY WHICH ISSUED ACCREDITATION TO THE CERTIFICATION BODY, ALONG WITH WEBSITE)	Dutch Accreditation Council RVA www.rva.nl	<b>ACCREDITED BY</b> (NAME OF ACCREDITATION BODY WHICH ISSUED ACCREDITATION TO THE LABORATORY, ALONG WITH WEBSITE)	Dutch Accreditation Council RVA www.rva.nl
<b>AS PER</b> (STANDARD TO WHICH THE CERTIFICATION BODY IS ACCREDITED TO)	ISO/IEC 17025:2005	<b>AS PER</b> (STANDARD TO WHICH YOUR ORGANIZATION IS ACCREDITED TO)	ISO/IEC 17065 ISO/IEC 17025
<b>VALIDITY</b> (EXPIRY DATE OF CERTIFICATION BODY ACCREDITATION)	1 March 2018	<b>VALIDITY</b> (EXPIRY DATE OF LABORATORY ACCREDITATION)	1 May 2018 1 March 2018
<b>REFERENCE NUMBER:</b> (CERTIFICATION BODY ACCREDITATION REFERENCE NUMBER TO VERIFY ON THE ACCREDITOR'S WEBSITE)	C001	<b>REFERENCE NUMBER:</b> (THE LABORATORY ACCREDITATION REFERENCE NUMBER TO VERIFY ON THE ACCREDITOR'S WEBSITE)	C001 L022
<b>CERTIFICATION MARK</b>			



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(ENDORSEMENT) TO BE SIGNED BY MANUFACTURER			
NAME OF MANUFACTURER'S SIGNATORY	Dr. Stefan Rohrmoser	SIGNATURE	
EMAIL / TEL	<a href="mailto:StefanRohrmoser@eaton.com">StefanRohrmoser@eaton.com</a> +49 2921 69 325	FACTORY OFFICIAL SEAL	
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	Drs. G.J. Zoetbrood	SIGNATURE	
EMAIL / TEL	lighting@dekra.com +31 88 96 83000	CERTIFICATION BODY OFFICIAL SEAL	
NOTES: I Undertake that all data and information provided are genuine and accurate			

- COPY OF 'CERTIFICATE OF COMPLIANCE' ISSUED BY CERTIFICATION BODY (OLD OR NEW)
- APPENDIX 1 – Compatibility list with Luminaires.



## APPENDIX 1 : List of models

### 1- [ZB-S/XXX ; US-S/ XXX]

Model	Description /Application	Voltage Supply	Lumen output	Hz	Duration	Type of operation	Compatible with Emergency Luminaires-certificates #	IP rating
ZB-S/XXX	Central Battery Systems with Individual Monitoring providing a dependable supply of power (230V AC/216 V DC) to safety and exit luminaires, the central battery system ZB-S tests itself automatically and individually monitors each CG-S luminaire (up to 20 per circuit), and it does all this using the power supply cable alone.	230 Vac	NA	50/60	180 min	CBS	1. 2218355.03-UAE 2. 2218355.04-UAE 3. 2218355.05-UAE 4. 2218355.06-UAE	20
US-S/XXX	Subsystems of a ZB-S Central Battery System with Individual Monitoring providing a dependable supply of power (230V AC/216 V DC) to safety and exit luminaires, the central battery system ZB-S tests itself automatically and individually monitors each CG-S luminaire (up to 20 per circuit), and it does all this using the power supply cable alone. The battery power will be provided by ZB-S.	230 Vac 216 Vdc (supplied by ZB-S/xxx)	NA	50/60	180 min	CBS	1. 2218355.03-UAE 2. 2218355.04-UAE 3. 2218355.05-UAE 4. 2218355.06-UAE	20

END