

# CERTIFICATE

Issued to:  
Applicant:  
**Vossloh-Schwabe Deutschland GmbH**  
**Wasenstrasse 25**  
**73660 Urbach, Germany**

Licensee:



Product : LED drivers (With cable clamp: independent type; without cable clamp: built-in type)  
Trade name(s) : VS Vossloh-Schwabe  
Type(s)/model(s) : ECXe1050.344, ECXe500.346 and ECXe700.345

The product and any acceptable variation thereto is specified in the Annex to this certificate and the documents therein referred to.

DEKRA hereby declares that the above-mentioned product has been certified on the basis of:

- a type test according to the standard EN 61347-1:2015, EN 61347-2-13:2014, EN 61347-2-13:2014/A1:2017, EN 62384:2006 and EN 62384:2006/A1:2009
- an inspection of the production location according to CENELEC Operational Document CIG 021
- a certification agreement with the number 2196588

DEKRA hereby grants the right to use the ENEC certification mark.

The ENEC certification mark may be applied to the product as specified in this certificate for the duration of the ENEC certification agreement and under the conditions of the ENEC certification agreement.

This certificate is issued on 1 February 2019 and expires upon withdrawal of one of the above mentioned standards.

Certificate number: 35-107314

DEKRA Certification B.V.



**B.T.M. Holtus**  
Managing Director



**M. Triulzi**  
Certification Manager

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**SPECIFICATION OF THE CERTIFIED PRODUCT****Product data**

Product	: LED drivers (With cable clamp: independent type; without cable clamp: built-in type)
Trade name(s)	: VS Vossloh-Schwabe
Type(s)/model(s)	: ECXe1050.344, ECXe500.346 and ECXe700.345
Rated input voltage	: 220-240 V~
Rated frequency	: 50/60 Hz
Class of insulation	: Class II (For independent type)
Degree of protection	: IP20 (For independent type)
Description	: SELV, Safety isolating non-inherently shorted circuit proof, 110 °C thermally protection, Uout 60 Vdc

**Product data – type ECXe1050.344**

Rated input current	: Output 1: 0,19 A; Output 2: 0,21 A; Output 3: 0,22 A; Output 4: 0,24 A
Output current	: Output 1: 800 mA; Output 2: 900 mA; Output 3: 950 mA; Output 4: 1050 mA
Output voltage range	: Output 1, Output 2, Output 3: 25-42 Vdc; Output 4: 30-42 Vdc
Max. open load voltage	: 60 Vdc
Max. output wattage	: Output 1: 34 W; Output 2: 38 W; Output 3: 40 W; Output 4: 44 W
Ambient temperature (ta)	: Output 1, Output 2, Output 3: 50 °C; Output 4: 45 °C
Max. case temperature (tc)	: 80 °C
Power factor	: 0,98

**Product data – type ECXe500.346**

Rated input current	: Output 1: 0,08 A; Output 2: 0,10 A; Output 3: 0,11 A; Output 4: 0,13 A
Output current	: Output 1: 250 mA; Output 2: 350 mA; Output 3: 450 mA; Output 4: 500 mA
Output voltage range	: 25-42 Vdc
Max. open load voltage	: 60 Vdc
Max. output wattage	: Output 1: 11 W; Output 2: 15 W; Output 3: 19 W; Output 4: 21 W
Ambient temperature (ta)	: 50 °C
Max. case temperature (tc)	: 80 °C
Power factor	: Output 1: 0,95; Output 2, Output 3, Output 4: 0,98

**Product data – type ECXe700.345**

Rated input current	: Output 1: 0,12 A; Output 2: 0,14 A; Output 3: 0,15 A; Output 4: 0,16 A
Output current	: Output 1: 500 mA; Output 2: 600 mA; Output 3: 650 mA; Output 4: 700 mA
Output voltage range	: 23-42 Vdc
Max. open load voltage	: 60 Vdc
Max. output wattage	: Output 1: 21 W; Output 2: 25 W; Output 3: 27 W; Output 4: 30 W
Ambient temperature (ta)	: 50 °C
Max. case temperature (tc)	: 80 °C
Power factor	: Output 1: 0,95; Output 2, Output 3, Output 4: 0,98

**TESTS****Test requirements**

EN 61347-1:2015

EN 61347-2-13:2014

EN 61347-2-13:2014/A1:2017

EN 62384:2006

EN 62384:2006/A1:2009

**Test result**

The test results are laid down in DEKRA test file 435100700.

**Additional information**

The products also consider EN 60598-1:2015.

The list of components is laid down at test report 4351007.50.

**Conclusion**

The examination proved that all requirements were met.

**Factory locations**