

# CERTIFICATE

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

Licensee:  
**Vossloh-Schwabe Deutschland GmbH**  
**Wasenstrasse 25**  
**73660 Urbach, Germany**

Product : LED Power Supply (Electronic Controlgear for LED)  
Trade name(s) : VS LIGHTING SOLUTIONS  
Type(s)/model(s) : ECXe 120.485, ECXe 120.486, ECXe 150.471, ECXe 150.487, ECXe 180.488,  
ECXe 180.489, ECXe 200.472, ECXe 250.473, ECXe 250.491, ECXe 300.474,  
ECXe 350.475, ECXe 400.492, ECXe 500.468, ECXe 500.476, ECXe 550.493,  
ECXe 600.477, ECXe 700.478, ECXe 750.494 and ECXe 800.495

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 3409202

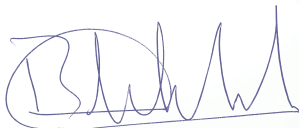
DEKRA hereby grants the right to use the ENEC certification mark.

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 6 November 2020 and expires upon withdrawal of one of the above mentioned standards.

Certificate number: 35-115992

DEKRA Certification B.V.



B.T.M. Holtus  
Managing Director



H.R.M. Barends  
Certification Manager

© Integral publication of this certificate is allowed

ACCREDITED BY THE  
DUTCH ACCREDITATION  
COUNCIL



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

Product	: LED Power Supply (Electronic Controlgear for LED)
Trade name(s)	: VS LIGHTING SOLUTIONS
Type(s)/model(s)	: ECXe 120.485, ECXe 120.486, ECXe 150.471, ECXe 150.487, ECXe 180.488, ECXe 180.489, ECXe 200.472, ECXe 250.473, ECXe 250.491, ECXe 300.474, ECXe 350.475, ECXe 400.492, ECXe 500.468, ECXe 500.476, ECXe 550.493, ECXe 600.477, ECXe 700.478, ECXe 750.494 and ECXe 800.495
Rated voltage	: 220-240 Vac
Rated frequency	: 50/60 Hz
Degree of protection	: IP20

**Product data – type ECXe 120.485**

Input current	: 0,07 A
Constant current	: 120 mA
Normal working voltage	: 28-42 Vdc
No load working voltage	: 50 Vdc
Max. Prated	: 5 W

**Product data – type ECXe 120.486**

Input current	: 0,12 A
Constant current	: 120 mA
Normal working voltage	: 40-67 Vdc
No load working voltage	: 77 Vdc
Max. Prated	: 8 W

**Product data – type ECXe 150.471**

Input current	: 0,09 A
Constant current	: 150 mA
Normal working voltage	: 28-42 Vdc
No load working voltage	: 50 Vdc
Max. Prated	: 6.3 W

**Product data – type ECXe 150.487**

Input current	: 0,12 A
Constant current	: 150 mA
Normal working voltage	: 32-54 Vdc
No load working voltage	: 63 Vdc
Max. Prated	: 8.1 W

**Product data – type ECXe 180.488**

Input current	: 0,11 A
Constant current	: 180 mA
Normal working voltage	: 28-42 Vdc
No load working voltage	: 50 Vdc
Max. Prated	: 7.6 W

**Product data – type ECXe 180.489**

Input current	: 0,12 A
Constant current	: 180 mA
Normal working voltage	: 27-45 Vdc



No load working voltage : 55 Vdc  
Max. Prated : 8.1 W

**Product data – type ECXe 200.472**

Input current : 0,12 A  
Constant current : 200 mA  
Normal working voltage : 28-42 Vdc  
No load working voltage : 50 Vdc  
Max. Prated : 8.4 W

**Product data – type ECXe 250.473**

Input current : 0,15 A  
Constant current : 250 mA  
Normal working voltage : 28-42 Vdc  
No load working voltage : 50 Vdc  
Max. Prated : 10.5 W

**Product data – type ECXe 250.491**

Input current : 0,18 A  
Constant current : 250 mA  
Normal working voltage : 28.5-48 Vdc  
No load working voltage : 58 Vdc  
Max. Prated : 12 W

**Product data – type ECXe 300.474**

Input current : 0,18 A  
Constant current : 300 mA  
Normal working voltage : 28-42 Vdc  
No load working voltage : 50 Vdc  
Max. Prated : 12.6 W

**Product data – type ECXe 350.475**

Input current : 0,22 A  
Constant current : 350 mA  
Normal working voltage : 28-42 Vdc  
No load working voltage : 50 Vdc  
Max. Prated : 14,7 W

**Product data – type ECXe 400.492**

Input current : 0,23 A  
Constant current : 400 mA  
Normal working voltage : 28-40 Vdc  
No load working voltage : 50 Vdc  
Max. Prated : 16 W

**Product data – type ECXe 500.468**

Input current : 0,17 A  
Normal working voltage : 20-42 Vdc  
No load working voltage : 50 Vdc  
Constant current : 350 mA, 400 mA, 450 mA, 500 mA  
Max. Prated : 21 W

**Product data – type ECXe 500.476**

Max input current	: 0,16 A
Constant current	: 500 mA
Normal working voltage	: 28-43 Vdc
No load working voltage	: 50 Vdc
Max. Prated	: 21.5 W

**Product data – type ECXe 550.493**

Max input current	: 0,18 A
Constant current	: 550 mA
Normal working voltage	: 28-42 Vdc
No load working voltage	: 50 Vdc
Max. Prated	: 23.1 W

**Product data – type ECXe 600.477**

Max input current	: 0,19 A
Constant current	: 600 mA
Normal working voltage	: 28-42 Vdc
No load working voltage	: 50 Vdc
Max. Prated	: 25.2 W

**Product data – type ECXe 700.478**

Max input current	: 0,22 A
Constant current	: 700 mA
Normal working voltage	: 28-42 Vdc
No load working voltage	: 50 Vdc
Max. Prated	: 29.4 W

**Product data – type ECXe 750.494**

Max input current	: 0,24 A
Constant current	: 750 mA
Normal working voltage	: 28-42 Vdc
No load working voltage	: 50 Vdc
Max. Prated	: 31.5 W

**Product data – type ECXe 800.495**

Max input current	: 0,25 A
Constant current	: 800 mA
Normal working voltage	: 28-40 Vdc
No load working voltage	: 50 Vdc
Max. Prated	: 32 W

**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 436773200.

**Additional information**

The list of components is laid down in test report 4367732.50, 4367732.51.

**Conclusion**

The examination proved that all requirements were met.

**Factory locations**

The factory locations are registered with the numbers 309635 and 26359.

Trade name(s) : VS LIGHTING SOLUTIONS stands for



Series 1: ECXe 120.485, ECXe 120.486, ECXe 150.471, ECXe 150.487, ECXe 180.488, ECXe 180.489, ECXe 200.472, ECXe 250.473, ECXe 250.491, ECXe 300.474

NO.	Model number	Input			Output				ta (°C)	tc (°C)	Protection type
		Voltage (VAC)	Current (A)	Frequency (Hz)	Constant current (mA)	Normal working voltage (VDC)	No load working voltage (VDC)	Max. Prated (W)			
1	ECXe 120.485	220-240	0,07	50/60	120	28-42	50	5	60	85	Built-in
2	ECXe 120.486	220-240	0,12	50/60	120	40-67	77	8			
3	ECXe 150.471	220-240	0,09	50/60	150	28-42	50	6.3			
4	ECXe 150.487	220-240	0,12	50/60	150	32-54	63	8.1			
5	ECXe 180.488	220-240	0,11	50/60	180	28-42	50	7.6			
6	ECXe 180.489	220-240	0,12	50/60	180	27-45	55	8.1			
7	ECXe 200.472	220-240	0,12	50/60	200	28-42	50	8.4			
8	ECXe 250.473	220-240	0,15	50/60	250	28-42	50	10.5			
9	ECXe 250.491	220-240	0,18	50/60	250	28.5-48	58	12			
10	ECXe 300.474	220-240	0,18	50/60	300	28-42	50	12.6			

 Note:  $\lambda=0,55C$  was measured at full load for each model.

Series 2: ECXe 350.475, ECXe 400.492:

NO.	Model number	Input			Output				ta (°C)	tc (°C)	Protection type
		Voltage (VAC)	Current (A)	Frequency (Hz)	Constant current (mA)	Normal working voltage (VDC)	No load working voltage (VDC)	Max. Prated (W)			
1	ECXe 350.475	220-240	0,22	50/60	350	28-42	50	14,7	60	85	Built-in
2	ECXe 400.492	220-240	0,23	50/60	400	28-40	50	16			

 Note:  $\lambda=0,5C$  was measured at full load for each model.

Series 3: ECXe 500.476, ECXe 550.493, ECXe 600.477

NO.	Model number	Input			Output				ta (°C)	tc (°C)	Protection type
		Voltage (VAC)	Max. Current (A)	Frequency (Hz)	Constant Current (mA)	Normal working voltage (VDC)	No load working voltage (VDC)	Max. Prated (W)			
1	ECXe 500.476	220-240	0,16	50/60	500	28-43	50	21.5	60	90	Built-in
2	ECXe 550.493	220-240	0,18	50/60	550	28-42	50	23.1			
3	ECXe 600.477	220-240	0,19	50/60	600	28-42	50	25.2			

Note:  $\lambda > 0,95$  was measured at full load for each model.

Series 4: ECXe 700.478 , ECXe 750.494, ECXe 800.495

NO.	Model number	Input			Output				ta (°C)	tc (°C)	Protection type
		Voltage (VAC)	Max. Current (A)	Frequency (Hz)	Constant current (mA)	Normal working voltage (VDC)	No load working voltage (VDC)	Max. Prated (W)			
1	ECXe 700.478	220-240	0.22	50/60	700	28-42	50	29.4	60	90	Built-in
2	ECXe 750.494	220-240	0.24	50/60	750	28-42	50	31.5			
3	ECXe 800.495	220-240	0.25	50/60	800	28-40	50	32			

Note:  $\lambda > 0,95$  was measured at full load for each model.

Series 5: ECXe 500.468

NO.	Model number	Input			Output				ta (°C)	tc (°C)	Protection type
		Voltage (VAC)	Current (A)	Frequency (Hz)	Constant current (mA)	Normal working voltage (VDC)	No load working voltage (VDC)	Max. Prated (W)			
1	ECXe 500.468	220-240	0,17	50/60	350	20-42	50	14,7	40	75	Independent
					400			16,8			
					450			18,9			
					500			21			

Note:  $\lambda = 0,95$  was measured at full load for this model.