

CERTIFICATE

Issued to:
Applicant:
Osram GmbH
Marcel-Breuer-Straße 6
80807 München, Germany

Licensee:
Osram GmbH
Marcel-Breuer-Straße 6
80807 München, Germany

Product : Built-in LED driver
Trade name(s) : OSRAM
Type(s)/model(s) : ELEMENT 18/220-240/350 D CS L, ELEMENT 35/220-240/800 CS L,
ELEMENT 40/220-240/350 D CS L and ELEMENT 60/220-240/350 D CS L

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.

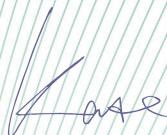
This certificate is issued on 22 May 2018 and expires upon withdrawal of one of the above mentioned standards.

Certificate number: 35-104103

DEKRA Certification B.V.



drs. G.J. Zoetbrood
Managing Director



Kate Xu
Certification Manager

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DUTCH ACCREDITATION
COUNCIL



SPECIFICATION OF THE CERTIFIED PRODUCT**Product data**

| | |
|----------------------------|--|
| Product | : Built-in LED driver |
| Trade name(s) | : OSRAM |
| Type(s)/model(s) | : ELEMENT 18/220-240/350 D CS L, ELEMENT 35/220-240/800 CS L, ELEMENT 40/220-240/350 D CS L and ELEMENT 60/220-240/350 D CS L |
| Rated voltage | : 220-240 V~ |
| Rated frequency | : 50/60 Hz |
| Class of insulation | : Class I |
| Ambient temperature (ta) | : 50 °C |
| Max. case temperature (tc) | : 75 °C |
| Power factor | : 0,95 |
| Degree of protection | : IP20 |

Product data – type ELEMENT 18/220-240/350 D CS L

| | |
|----------------------------|---|
| Rated input current | : Output 1: 0,056 A; Output 2: 0,068 A; Output 3: 0,082 A; Output 4: 0,095 A |
| Output current | : Output 1: 200 mA; Output 2: 250 mA; Output 3: 300 mA; Output 4: 350 mA |
| Output voltage range | : 25-54 Vdc |
| Max. open load voltage | : 250 V |
| Max. output watt | : 18 W |
| Ambient temperature (ta) | : 50 °C |
| Max. case temperature (tc) | : 75 °C |
| Power factor | : 0,95 |
| Description | : Auto-wound controlgear, 110 °C thermal protection |

Product data – type ELEMENT 35/220-240/800 CS L

| | |
|------------------------|--|
| Rated input current | : Output 1: 0,130 A; Output 2: 0,155 A; Output 3: 0,178 A; Output 4: 0,204 A |
| Output current | : Output 1: 500 mA; Output 2: 600 mA; Output 3: 700 mA; Output 4: 800 mA |
| Output voltage range | : 23-51 Vdc |
| Max. open load voltage | : 60 Vdc |
| Max. output watt | : 35 W |
| Description | : SELV, Safety isolating non-inherently shorted circuit proof, 110 °C thermal protection |

Product data – type ELEMENT 40/220-240/350 D CS L

| | |
|------------------------|---|
| Rated input current | : Output 1: 0,117 A; Output 2: 0,143 A; Output 3: 0,169 A; Output 4: 0,196 A |
| Output current | : Output 1: 200 mA; Output 2: 250 mA; Output 3: 300 mA; Output 4: 350 mA |
| Output voltage range | : 55-120 Vdc |
| Max. open load voltage | : 280 V |
| Max. output watt | : 40 W |
| Description | : Auto-wound controlgear, 110 °C thermal protection |

Product data – type ELEMENT 60/220-240/350 D CS L

| | |
|---------------------|---|
| Rated input current | : Output 1: 0,164 A; Output 2: 0,206 A; Output 3: 0,245 A; Output 4: 0,288 A |
|---------------------|---|

| | |
|------------------------|---|
| Output current | : Output 1: 200 mA; Output 2: 250 mA; Output 3: 300 mA; Output 4: 350 mA |
| Output voltage range | : 90-175 Vdc |
| Max. open load voltage | : 340 V |
| Max. output watt | : 60 W |
| Description | : Auto-wound controlgear, 110 °C thermal protection |

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 434300900.

Additional information

The list of components is laid down at test report 4343009.50V1.0, 4343009.53, 4343009.56.

Conclusion

The examination proved that all requirements were met.