

CERTIFICATE

Issued to:
Applicant:
Inventronics GmbH
Parkring 31-33
85748 Garching By Munich, Germany

Licensee:
Inventronics GmbH
Parkring 31-33
85748 Garching By Munich, Germany

Product : Built-in LED drivers
Trade name(s) : OSRAM or inventronics
Type(s)/model(s) : EM FIT 18/220-240/350 CS L, EM FIT 18/220-240/350 D CS L,
EM FIT 40/220-240/350 D CS L, EM FIT 40/220-240/800 CS L,
EM FIT 60/220-240/1200 CS L, EM FIT 60/220-240/350 D CS L,
EM FIT 75/220-240/1600 CS L and EM FIT 75/220-240/550 D CS L

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

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

- a type test according to EN 61347-1:2015, EN 61347-1:2015/A1:2021, EN 61347-2-13:2014, EN 61347-2-13:2014/A1:2017 and EN IEC 62384:2020
- an inspection of the factory location according to CENELEC Operational Document CIG 021
- a DEKRA certification agreement with the number 6064544

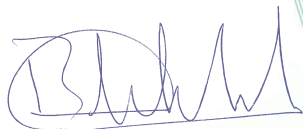
DEKRA hereby grants the right to use the ENEC certification mark.

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

This certificate is issued on 20 May 2024 and expires upon withdrawal of one of the above mentioned standards.

Certificate number: 35-122751 REV.3

DEKRA Certification B.V.



B.T.M. Holtus
Managing Director



R Zhou
Certification Manager

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SPECIFICATION OF THE CERTIFIED PRODUCT**Product data**

Product	: Built-in LED drivers
Trade name(s)	: OSRAM or inventronics
Type(s)/model(s)	: EM FIT 18/220-240/350 CS L, EM FIT 18/220-240/350 D CS L, EM FIT 40/220-240/350 D CS L, EM FIT 40/220-240/800 CS L, EM FIT 60/220-240/1200 CS L, EM FIT 60/220-240/350 D CS L, EM FIT 75/220-240/1600 CS L and EM FIT 75/220-240/550 D CS L
Rated input voltage	: 220-240 V
Rated frequency	: 50/60 Hz
Additional information	: EM FIT 18/220-240/350 D CS L, EM FIT 40/220-240/350 D CS L, EM FIT 60/220-240/350 D CS L, EM FIT 75/220-240/550 D CS L: Auto-wound controlgear, built-in, class I construction, 110 °C thermal protection, constant current type, U _{out} : 250 V; EM FIT 18/220-240/350 CS L, EM FIT 40/220-240/800 CS L, EM FIT 60/220-240/1200 CS L, EM FIT 75/220-240/1600 CS L: SELV, class I construction, Safety isolating non-inherently short circuit proof, 110 °C thermal protection, constant current type, U _{out} : 60 Vdc;

Product data – type EM FIT 18/220-240/350 CS L

Rated input current	: Output 1: 0,082 A; Output 2: 0,095 A; Output 3: 0,110 A; Output 4: 0,125 A
Output current	: Output 1: 200 mA; Output 2: 250 mA; Output 3: 300 mA; Output 4: 350 mA
Output voltage range	: 27-51 Vdc
Max. output watt	: Output 1: 10,2 W; Output 2: 12,8 W; Output 3: 15,3 W; Output 4: 17,9 W
Ambient temperature (ta)	: 50 °C
Max. case temperature (tc)	: 65 °C
Power factor	: Output1: 0,7C-0,9C; Output 2: 0,9C-0,95; Output 3: 0,9C-0,95; Output 4: 0,9C-0,95;
Max. open load voltage	: 60 Vdc

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

Rated input current	: Output 1: 0,085 A; Output 2: 0,10 A; Output 3: 0,11 A; Output 4: 0,13 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. output watt	: Output 1: 10,8 W; Output 2: 13,5 W; Output 3: 16,2 W; Output 4: 18,9 W
Ambient temperature (ta)	: 50 °C
Max. case temperature (tc)	: 60 °C
Power factor	: Output1: 0,6C-0,89C; Output 2: 0,7C-0,92C; Output 3: 0,8C-0,94C; Output 4: 0,8C-0,95
Max. open load voltage	: 250 Vdc

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

Rated input current	: Output 1: 0,15 A; Output 2: 0,19 A; Output 3: 0,22 A; Output 4: 0,25 A
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Output current	: Output 1: 200 mA; Output 2: 250 mA; Output 3: 300 mA; Output 4: 350 mA
Output voltage range	: 40-120 Vdc
Max. output watt	: Output 1: 24,0 W; Output 2: 30,0 W; Output 3: 36,0 W; Output 4: 42,0 W
Ambient temperature (ta)	: 60 °C
Max. case temperature (tc)	: 75 °C
Power factor	: Output1: 0,6C-0,92C; Output 2: 0,7C-0,93C; Output 3: 0,8C-0,94C; Output 4: 0,9C-0,95
Max. open load voltage	: 250 Vdc

Product data – type EM FIT 40/220-240/800 CS L

Rated input current	: Output 1: 0,175 A; Output 2: 0,200 A; Output 3: 0,240 A; Output 4: 0,280 A
Output current	: Output 1: 500 mA; Output 2: 600 mA; Output 3: 700 mA; Output 4: 800 mA
Output voltage range	: 27-51 Vdc
Max. output watt	: Output 1: 25,5 W; Output 2: 30,6 W; Output 3: 35,7 W; Output 4: 40,8 W
Ambient temperature (ta)	: 50 °C
Max. case temperature (tc)	: 75 °C
Power factor	: Output1: 0,6C-0,92C; Output 2: 0,7C-0,93C; Output 3: 0,8C-0,94C; Output 4: 0,9C-0,95
Max. open load voltage	: 60 Vdc

Product data – type EM FIT 60/220-240/1200 CS L

Rated input current	: Output 1: 0,270 A; Output 2: 0,330 A; Output 3: 0,340 A; Output 4: 0,370 A
Output current	: Output 1: 900 mA; Output 2: 1050 mA; Output 3: 1100 mA; Output 4: 1200 mA
Output voltage range	: 27-51 Vdc
Max. output watt	: Output 1: 45,9 W; Output 2: 53,6 W; Output 3: 56,1 W; Output 4: 61,2 W
Ambient temperature (ta)	: 50 °C
Max. case temperature (tc)	: 75 °C
Power factor	: 0,9C-0,95
Max. open load voltage	: 60 Vdc

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

Rated input current	: Output 1: 0,24 A; Output 2: 0,29 A; Output 3: 0,34 A; Output 4: 0,39 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. output watt	: Output 1: 35,0 W; Output 2: 43,8 W; Output 3: 52,5 W; Output 4: 61,3 W
Ambient temperature (ta)	: 50 °C
Max. case temperature (tc)	: 75 °C
Power factor	: Output1: 0,91C-0,95; Output 2: 0,92C-0,95; Output 3: 0,94C-0,95; Output 4: 0,95-0,96
Max. open load voltage	: 250 Vdc

Product data – type EM FIT 75/220-240/1600 CS L

Rated input current	: Output 1: 0,390 A; Output 2: 0,420 A; Output 3: 0,450 A; Output 4: 0,480 A
Output current	: Output 1: 1300 mA; Output 2: 1400 mA; Output 3: 1500 mA; Output 4: 1600 mA
Output voltage range	: 27-51 Vdc
Max. output watt	: Output 1: 66,3 W; Output 2: 71,4 W; Output 3: 76,5 W; Output 4: 81,6 W
Ambient temperature (ta)	: 50 °C
Max. case temperature (tc)	: 75 °C
Power factor	: 0,9C-0,95
Max. open load voltage	: 60 Vdc

Product data – type EM FIT 75/220-240/550 D CS L

Rated input current	: Output 1: 0,47 A; Output 2: 0,47 A; Output 3: 0,47 A; Output 4: 0,47 A
Output current	: Output 1: 350 mA; Output 2: 400 mA; Output 3: 500 mA; Output 4: 550 mA
Output voltage range	: Output 1: 90-216 Vdc; Output 2: 90-187 Vdc; Output 3: 90-150 Vdc; Output 4: 90-136 Vdc
Max. output watt	: Output 1: 75,6 W; Output 2: 74,8 W; Output 3: 75,0 W; Output 4: 74,8 W
Ambient temperature (ta)	: 50 °C
Max. case temperature (tc)	: 75 °C
Power factor	: Output 1: 0,94C-0,96; Output 2: 0,95-0,96; Output 3: 0,95-0,96; Output 4: 0,95-0,96
Max. open load voltage	: 250 Vdc

TESTS**Test requirements**

EN 61347-1:2015
EN 61347-1:2015/A1:2021
EN 61347-2-13:2014
EN 61347-2-13:2014/A1:2017
EN IEC 62384:2020

Test result

The test results are documented in DEKRA test file 490460600.

Additional information

This certificate replaces certificate No. 35-122751 REV.2 which we hereby declare invalid.

The list of components is laid down in test report 4372773B.52,4372773B.53,4372773D.50,4372773D.51.

Conclusion

The examination has confirmed that all requirements were met.

Trade name : inventronics stands for **inventronics**
OSRAM stands for **OSRAM**