

CERTIFICATE

Issued to:
Applicant:
MEAN WELL Enterprises Co., Ltd.
No.28, Wuquan 3rd Road
Wugu District
New Taipei City 248
Taiwan

Manufacturer/Licensee:
MEAN WELL Enterprises Co., Ltd.
No.28, Wuquan 3rd Road
Wugu District
New Taipei City 248
Taiwan

Product : Independent LED drivers
Trade name : MEAN WELL
Types : NPF-120-12, NPF-120-15, NPF-120-20, NPF-120-24, NPF-120-30
NPF-120-36, NPF-120-42, NPF-120-48, NPF-120-54
NPF-120D-12, NPF-120D-15, NPF-120D-20, NPF-120D-24
NPF-120D-30, NPF-120D-36, NPF-120D-42, NPF-120D-48, NPF-120D-54
NPF-120D-12BE, NPF-120D-15BE, NPF-120D-20BE
NPF-120D-24BE, NPF-120D-30BE, NPF-120D-36BE
NPF-120D-42BE, NPF-120D-48BE, NPF-120D-54BE
PWM-120-12, PWM-120-24, PWM-120-36, PWM-120-48

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 61347-1:2008; EN 61347-2-13:2014; EN 62384:2006
- an inspection of the production location according to CENELEC Operational Document CIG 021
- a certification agreement with the number 2175773

DEKRA hereby grants the right to use the ENEC KEMA-KEUR certification mark.

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

This certificate is issued on: 22 September 2016 and expires upon withdrawal of one of the above mentioned standards.

Certificate number: 2197213.01

DEKRA Certification B.V.



drs. G.J. Zoetbrood
Managing Director



W. Singewald
Certification Manager

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DUTCH ACCREDITATION
COUNCIL



SPECIFICATION OF THE CERTIFIED PRODUCT**Product data**

| | | |
|----------------------------|---|---|
| product | : | Independent LED drivers |
| trade name | : | MEAN WELL |
| types | : | NPF-120-12, NPF-120-15, NPF-120-20 NPF-120-24, NPF-120-30, NPF-120-36 NPF-120-42, NPF-120-48, NPF-120-54 NPF-120D-12, NPF-120D-15, NPF-120D-20 NPF-120D-24, NPF-120D-30, NPF-120D-36 NPF-120D-42, NPF-120D-48, NPF-120D-54 NPF-120D-12BE, NPF-120D-15BE, NPF-120D-20BE NPF-120D-24BE, NPF-120D-30BE, NPF-120D-36BE NPF-120D-42BE, NPF-120D-48BE, NPF-120D-54BE PWM-120-12, PWM-120-24, PWM-120-36, PWM-120-48 |
| rated input voltage | : | 100-240 V~ |
| rated input current | : | see product date per type |
| nature of supply | : | a.c. |
| rated frequency | : | 50/60 Hz |
| output current | : | see product date per type |
| output voltage | : | see product date per type |
| power factor | : | 0,95 |
| max. case temperature (tc) | : | 90 °C |
| ambient temperature (ta) | : | see product date per type |
| class of insulation | : | Class II |
| degree of protection | : | IP 67 |
| description | : | Independent LED drivers with SELV output circuit |

Additional information

- Constant voltage mode.
- Thermal, short-circuit and overload protection.
- Inherently short circuit proof.
- With MM signs.
- Temperature declared thermal protection: 110 °C.

Product data - type NPF-120-12, NPF-120D-12 and PWM-120-12

| | | |
|--------------------------|---|--------|
| rated input current | : | 1,5 A |
| output current | : | 10 A |
| output voltage | : | 12 Vdc |
| ambient temperature (ta) | : | 40 °C |

Product data - type NPF-120-15 and NPF-120D-15

| | | |
|--------------------------|---|--------|
| rated input current | : | 1,5 A |
| output current | : | 8 A |
| output voltage | : | 15 Vdc |
| ambient temperature (ta) | : | 40 °C |

Product data - type NPF-120-20 and NPF-120D-20

rated input current : 1,5 A
output current : 6 A
output voltage : 20 Vdc
ambient temperature (ta) : 45 °C

Product data - type NPF-120-24, NPF-120D-24 and PWM-120-24

ambient temperature (ta) : 1,5 A
output current : 5 A
output voltage : 24 Vdc
ambient temperature (ta) : 45 °C

Product data - type NPF-120-30 and NPF-120D-30

rated input current : 1,5 A
output current : 4 A
output voltage : 30 Vdc
ambient temperature (ta) : 45 °C

Product data - type NPF-120-36, NPF-120D-36 and PWM-120-36

rated input current : 1,5 A
output current : 3,4 A
output voltage : 36 Vdc
ambient temperature (ta) : 45 °C

Product data - type NPF-120-42 and NPF-120D-42

rated input current : 1,5 A
output current : 2,9 A
output voltage : 42 Vdc
ambient temperature (ta) : 45 °C

Product data - type NPF-120-48, NPF-120D-48 and PWM-120-48

rated input current : 1,5 A
output current : 2,5 A
output voltage : 48 Vdc
ambient temperature (ta) : 45 °C

Product data - type NPF-120-54 and NPF-120D-54

rated input current : 1,5 A
output current : 2,3 A
output voltage : 54 Vdc
ambient temperature (ta) : 45 °C

Product data - type NPF-120D-12BE

| | | |
|--------------------------|---|--------|
| rated input current | : | 1,5 A |
| output current (I1) | : | 10 A |
| output current (I2) | : | 0,2 A |
| output voltage (V1) | : | 12 Vdc |
| output voltage (V2) | : | 12 Vdc |
| ambient temperature (ta) | : | 40 °C |

Product data - type NPF-120D-15BE

| | | |
|--------------------------|---|--------|
| rated input current | : | 1,5 A |
| output current (I1) | : | 8 A |
| output current (I2) | : | 0,2 A |
| output voltage (V1) | : | 15 Vdc |
| output voltage (V2) | : | 12 Vdc |
| ambient temperature (ta) | : | 40 °C |

Product data - type NPF-120D-20BE

| | | |
|--------------------------|---|--------|
| rated input current | : | 1,5 A |
| output current (I1) | : | 6 A |
| output current (I2) | : | 0,2 A |
| output voltage (V1) | : | 20 Vdc |
| output voltage (V2) | : | 12 Vdc |
| ambient temperature (ta) | : | 45 °C |

Product data - type NPF-120D-24BE

| | | |
|--------------------------|---|--------|
| rated input current | : | 1,5 A |
| output current (I1) | : | 5 A |
| output current (I2) | : | 0,2 A |
| output voltage (V1) | : | 24 Vdc |
| output voltage (V2) | : | 12 Vdc |
| ambient temperature (ta) | : | 45 °C |

Product data - type NPF-120D-30BE

| | | |
|--------------------------|---|--------|
| rated input current | : | 1,5 A |
| output current (I1) | : | 4 A |
| output current (I2) | : | 0,2 A |
| output voltage (V1) | : | 30 Vdc |
| output voltage (V2) | : | 12 Vdc |
| ambient temperature (ta) | : | 45 °C |

Product data - type NPF-120D-36BE

| | |
|--------------------------|----------|
| rated input current | : 1,5 A |
| output current (I1) | : 3,4 A |
| output current (I2) | : 0,2 A |
| output voltage (V1) | : 36 Vdc |
| output voltage (V2) | : 12 Vdc |
| ambient temperature (ta) | : 45 °C |

Product data - type NPF-120D-42BE

| | |
|--------------------------|----------|
| rated input current | : 1,5 A |
| output current (I1) | : 2,9 A |
| output current (I2) | : 0,2 A |
| output voltage (V1) | : 42 Vdc |
| output voltage (V2) | : 12 Vdc |
| ambient temperature (ta) | : 45 °C |

Product data - type NPF-120D-48BE

| | |
|--------------------------|----------|
| rated input current | : 1,5 A |
| output current (I1) | : 2,5 A |
| output current (I2) | : 0,2 A |
| output voltage (V1) | : 48 Vdc |
| output voltage (V2) | : 12 Vdc |
| ambient temperature (ta) | : 45 °C |

Product data - type NPF-120D-54BE

| | |
|--------------------------|----------|
| rated input current | : 1,5 A |
| output current (I1) | : 2,3 A |
| output current (I2) | : 0,2 A |
| output voltage (V1) | : 54 Vdc |
| output voltage (V2) | : 12 Vdc |
| ambient temperature (ta) | : 45 °C |

TESTS**Test requirements**

EN 61347-1:2008 + A1:2011 + A2:2013
EN 61347-2-13:2014
EN 62384:2006 + A1:2009

Test results

The test results are laid down in DEKRA test file 2197213.00.

Remarks

- The list of critical components is laid down in the test report no. 2197213.50.
- This certificate supersedes the certificate no. 2183809.01, dated on 29 June 2015 which is herewith declared invalid.

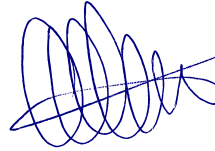
Conclusion

The examination proved that all test requirements were met.

Tested by : L.N.H. Huynh

A blue ink signature in cursive script, appearing to read 'L.N.H. Huynh', positioned to the right of the 'Tested by' text.

Checked by : A.P. van der Veen

A blue ink signature in cursive script, appearing to read 'A.P. van der Veen', positioned to the right of the 'Checked by' text.

Factory location

MEAN WELL (Guangzhou) Electronics, Co.,Ltd. Huadu Branch
No.11 Jingu South Road
Huadong Town
Huadu District
Guangzhou
Guangdong
China