

# CERTIFICATE

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

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

Product : Built-in controlgear  
Trade name(s) : MEAN WELL  
Type(s)/model(s) : HBG-160P-36DA, HBG-160P-48DA, HBG-160P-60DA

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 61347-2-13:2014, EN 61347-2-13:2014/A1:2017 and EN 61347-1:2015
- 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 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 3 June 2018 and expires upon withdrawal of one of the above mentioned standards.

Certificate number: 35-104308

DEKRA Certification B.V.



drs. G.J. Zoetbrood  
Managing Director



Kreny Lin  
Certification Manager

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DUTCH ACCREDITATION  
COUNCIL



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

Product	: Built-in controlgear
Trade name(s)	: MEAN WELL
Type(s)/model(s)	: HBG-160P-36DA, HBG-160P-48DA and HBG-160P-60DA
Rated input voltage	: 100-240 V~
Rated frequency	: 50/60 Hz
Power factor	: 0,95
Ambient temperature (ta)	: 40 °C
Class of insulation	: Class I
Description	: Thermal, short-circuit and overload protection

**Product data – type HBG-160P-36DA**

Constant current mode	: 21,6-36 Vdc, 37 Vdc max., 4,4 A
Constant voltage mode	: 36 Vdc, 0-4,4 A
Rated Power	: 158,4 W

**Product data – type HBG-160P-48DA**

Constant current mode	: 28,8-48 Vdc, 49 Vdc max., 3,3 A
Constant voltage mode	: 48 Vdc, 0-3,3 A
Rated Power	: 158,4 W

**Product data – type HBG-160P-60DA**

Constant current mode	: 36-60 Vdc, 67 Vdc max., 2,6 A
Constant voltage mode	: 60 Vdc, 0-2,6 A
Rated Power	: 156 W

**TESTS****Test requirements**

EN 61347-2-13:2014  
EN 61347-2-13:2014/A1:2017  
EN 61347-1:2015

**Test result**

The test results are laid down in DEKRA test file 434304500.

**Additional information**

The product also considers EN 62384:2006 + A1:2009.

The list of components is laid down at test report 4343045.50.

**Conclusion**

The examination proved that all requirements were met.

**Factory location**

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

Trade name : MEAN WELL stands for

