

CERTIFICATE

Issued to:
Applicant:
MEAN WELL Enterprises Co., Ltd.
No.28, Wuquan 3rd Rd, Wugu District
24891 New Taipei City, Taiwan

Licensee:
MEAN WELL Enterprises Co., Ltd.
No.28, Wuquan 3rd Rd, Wugu District
24891 New Taipei City, Taiwan

Product : Independent LED driver
Trade name(s) : MEAN WELL
Type(s)/model(s) : HVGC-650-H, HVGC-650-H-AB, HVGC-650-H-D2, HVGC-650-H-DA,
HVGC-650-H-Dx, HVGC-650-H-PL, HVGC-650-U, HVGC-650-U-AB,
HVGC-650-U-AB-HSP, HVGC-650-U-D2, HVGC-650-U-DA, HVGC-650-U-Dx,
HVGC-650-U-PL, HVGC-650A-H, HVGC-650A-H-AB, HVGC-650A-H-D2,
HVGC-650A-H-DA, HVGC-650A-H-Dx, HVGC-650A-H-PL, HVGC-650A-U,
HVGC-650A-U-AB, HVGC-650A-U-D2, HVGC-650A-U-DA, HVGC-650A-U-Dx
and HVGC-650A-U-PL

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, EN 61347-1:2015, EN 62384:2006/A1:2009 and EN 62384:2006
- an inspection of the production location according to CENELEC Operational Document CIG 021
- a certification agreement with the number 2175773

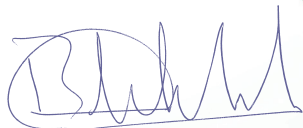
DEKRA hereby grants the right to use the ENEC certification mark.

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 12 December 2019 and expires upon withdrawal of one of the above mentioned standards.

Certificate number: 35-111691

DEKRA Certification B.V.



B.T.M. Holtus
Managing Director



K. Lin
Certification Manager

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ACCREDITED BY THE
DUTCH ACCREDITATION
COUNCIL



SPECIFICATION OF THE CERTIFIED PRODUCT**Product data**

Product	: Independent LED driver
Trade name(s)	: MEAN WELL
Type(s)/model(s)	: HVGC-650-H, HVGC-650-H-AB, HVGC-650-H-D2, HVGC-650-H-DA, HVGC-650-H-Dx, HVGC-650-H-PL, HVGC-650-U, HVGC-650-U-AB, HVGC-650-U-AB-HSP, HVGC-650-U-D2, HVGC-650-U-DA, HVGC-650-U-Dx, HVGC-650-U-PL, HVGC-650A-H, HVGC-650A-H-AB, HVGC-650A-H-D2, HVGC-650A-H-DA, HVGC-650A-H-Dx, HVGC-650A-H-PL, HVGC-650A-U, HVGC-650A-U-AB, HVGC-650A-U-D2, HVGC-650A-U-DA, HVGC-650A-U-Dx and HVGC-650A-U-PL
Rated input voltage	: 200-400 V~
Rated input current	: 3,8 A
Rated frequency	: 50/60 Hz
Max. case temperature (tc)	: 85 °C
Ambient temperature (ta)	: 45 °C
Power factor	: 0,95
Class of insulation	: Class I
Degree of protection	: IP67
Additional information	: Constant current mode, SELV, short-circuit and overload protection.

TESTS**Test requirements**

EN 61347-2-13:2014
EN 61347-2-13:2014/A1:2017
EN 61347-1:2015
EN 62384:2006/A1:2009
EN 62384:2006

Test result

The test results are laid down in DEKRA test file 435982700.

Additional information

Model reference:

HVGC-650-X-Y, HVGC-650A-X-Y, HVGC-650-U-AB-HSP
(X=H or U, Y=blank, AB, D2, Dx, DA, PL)

The list of components is laid down at test report 4359827.50, 4359827.51.

Conclusion

The examination proved that all requirements were met.

Factory locations

MEAN WELL (GUANGZHOU) Electronics Co.,Ltd. Huadu Branch
No.11 Jingu South Road, Huadong Town, Huadu District,
Guangzhou 510890, Guangdong, China

MEAN WELL Enterprises Co., Ltd.
No.28, Wuquan 3rd Rd, Wugu District
24891 New Taipei City, Taiwan

Trade name(s) : MEAN WELL stands for

**Model list:**

Model No	Input voltage (V)	Input current (A)	Output voltage (Vdc)	Output current (mA)	Max. Output power (W)	Remark
HVGC-650-H-Y	200-400	3,8	46,4-116, Max. 120	7000	649,6	Constant current
HVGC-650-U-Y	200-400	3,8	24-58, Max. 70	14000	649,6	Constant current
HVGC-650-U-AB-HSP	200-400	3,8	24-50, Max. 58	13000	650,0	Constant current
HVGC-650A-H-Y	200-400	3,8	V _O : 46,4-116, Max. 120 V _{AUX} : 12	I _O : 7000 I _{AUX} : 200	W _O : 649,6 W _{AUX} : 2,4	Constant current
HVGC-650A-U-Y	200-400	3,8	V _O :: 24-58, Max. 70 V _{AUX} : 12	I _O : 14000 I _{AUX} : 200	W _O : 649,6 W _{AUX} : 2,4	Constant current

Model Encoding:

HVGC-650-X-Y, HVGC-650A-X-Y, HVGC-650-U-AB-HSP

X= H or U

Y= blank, AB, D2, Dx, DA, PL define for dimming function mode.

Blank: Cable for I/O connection.

AB: Constant current level can be adjusted through internal potentiometer or output cable with 0-10 Vdc or 10 V PWM signal or resistance.

Dx: Smart timer dimming.

D2: Smart timer dimming can be programmed by dimming wire.

DA: DALI function

PL: Constant current level can be adjusted through internal potentiometer or output cable with 0-10 Vdc or 10V PWM signal or resistance. PL type and AB type is similar except Dimming PCB.

Model difference:

Function mode	Main PCB	Dimming PCB	Dimming wire	Front cover (with or without plastic cap)	IP
Blank	Same	D	Without	Without	67
AB	Same	D	With (DIM)	With	67
Dx	Same	E	Without	With	67
D2	Same	E	With (PROG)	With	67
DA	Same	DA	With (DA)	With	67
PL	Same	PL	With (DIM)	With	67