

# HLG-240H series



#### TAIWAN EXCELLENCE 2011



### Features

- Constant Voltage + Constant Current mode output
- · Metal housing with class  ${\rm I}$  design
- · IP67 / IP65 rating for indoor or outdoor installations
- Function options: output adjustable via potentiometer; 3 in 1 dimming
- Typical lifetime > 62000 hours
- 7 years warranty

#### IS 15858(Part 2/Sec13) R-41027766 (for 48V only) C Type HL US C Type HL US

### Applications

- LED street lighting
- LED high-bay lighting
- Parking space lighting
- LED fishing lamp
- LED greenhouse lighting
- Type "HL" for use in Class I , Division 2 hazardous (Classified) location.

### Description

HLG-240H series is a 240W AC/DC LED driver featuring the dual mode constant voltage and constant current output. HLG-240H operates from 90 ~ 305VAC and offers models with different rated voltage ranging between 12V and 54V. Thanks to the high efficiency up to 93.5%, with the fanless design, the entire series is able to operate for  $-40^{\circ}$ C ~  $+90^{\circ}$ C case temperature under free air convection. The design of metal housing and IP67/IP65 ingress protection level allows this series to fit both indoor and outdoor applications. HLG-240H is equipped with various function options, such as dimming methodologies, so as to provide the optimal design flexibility for LED lighting system.

### Model Encoding

HLG - 240H - 15 A Function options Rated output voltage (12V/15V/20V/24V/30V/36V/42V/48V/54V) Rated wattage Series name

Туре	IP Level	Function	Note
Blank	IP67	Io and Vo fixed	In Stock
A	IP65	Io and Vo adjustable through built-in potentiometer	In Stock
В	IP67	3 in 1 dimming function (1~10VDC, 10V PWM signal and resistance)	In Stock
AB	IP65	Io and Vo adjustable through built-in potentiometer & 3 in 1 dimming function (1~10Vdc, 10V PWM signal and resistance)	In Stock
С		Terminal block for I/O connection. Output voltage and constant current level can be adjusted through internal potentiometer.	By request
D	IP67	Timer dimming function, contact MEAN WELL for details(safety pending).	By request

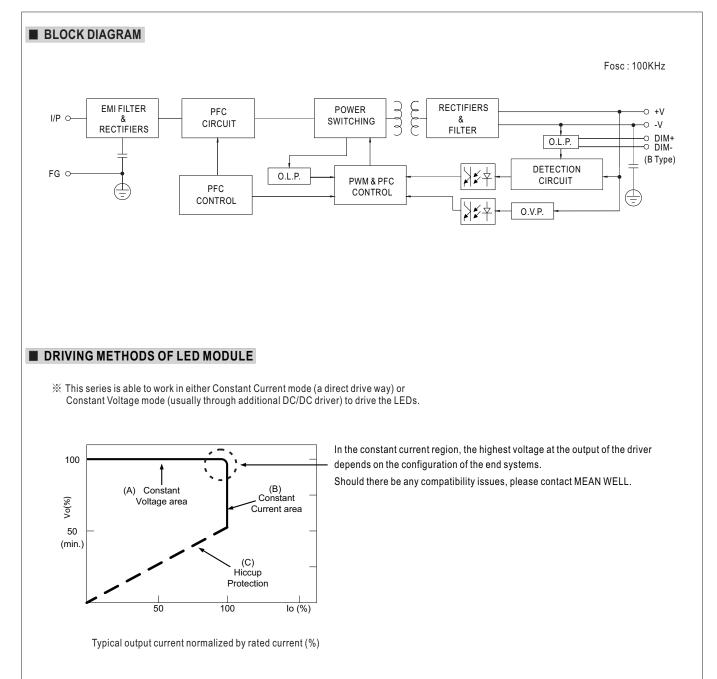


# HLG-240H series

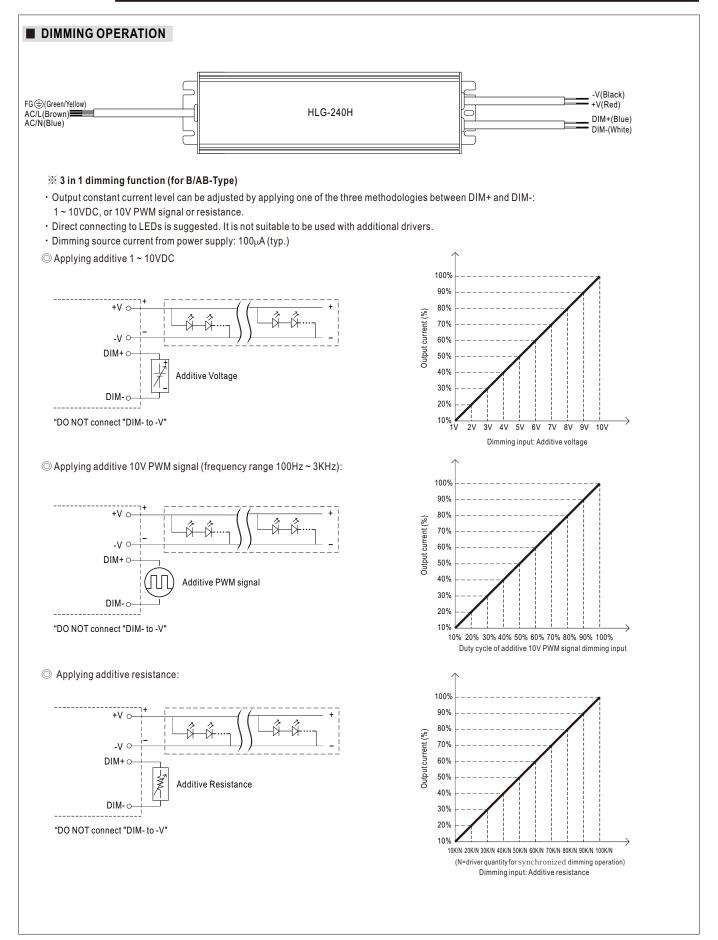
### SPECIFICATION

MODEL		HLG-240H-12	HLG-240H-15	HLG-240H-20	HLG-240H-24	HLG-240H-30	HLG-240H-36	HLG-240H-42	HLG-240H-48	HLG-240H-54
	DC VOLTAGE	12V	15V	20V	24V	30V	36V	42V	48V	54V
	CONSTANT CURRENT REGION Note.4	6~12V	7.5 ~ 15V	10 ~ 20V	12~24V	15~30V	18~36V	21~42V	24~48V	27 ~ 54V
	RATED CURRENT	16A	15A	12A	10A	8A	6.7A	5.72A	5A	4.45A
	RATED POWER	192W	225W	240W	240W	240W	241.2W	240.24W	240W	240.3W
	RIPPLE & NOISE (max.) Note.2		150mVp-p	150mVp-p	150mVp-p	200mVp-p	250mVp-p	250mVp-p	250mVp-p	350mVp-p
-			r A/AB/C-Type				2001110 0	2001110 0	200111vp-p	00011vp-p
	VOLTAGE ADJ. RANGE	11.2 ~ 12.8V		1	22.4 ~ 25.6V	1	33.5 ~ 38.5V	39 ~ 45V	44.8 ~ 51.2V	50~57V
OUTPUT			r A/AB/C-Type				00.0 00.0 V	00 401	44.0 01.20	00 011
	CURRENT ADJ. RANGE				· · · · · · · · · · · · · · · · · · ·	, ,	3.3~6.7A	0.00 5.704	0.5 54	0.00 4.454
		8~16A	7.5 ~ 15A	6~12A	5~10A	4~8A		2.86 ~ 5.72A		2.23~4.454
-	VOLTAGE TOLERANCE Note.3		±2.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%
	LINE REGULATION	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	$\pm 0.5\%$	±0.5%	±0.5%	$\pm 0.5\%$
	LOAD REGULATION	±2.0%	±1.5%	±1.0%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%
	SETUP, RISE TIME Note.6	1000ms,80ms/115VAC 500ms,80ms/230VAC								
	HOLD UP TIME (Typ.)	15ms / 115VAC, 230VAC								
		90 ~ 305VAC 127 ~ 431VDC								
	VOLTAGE RANGE Note.5									
-	FREQUENCY RANGE	47 ~ 63Hz								
			SVAC, PF≧0.9	5/230\/AC.@f	ull load					
	POWER FACTOR (Typ.)		to "POWER FA	•		IC" section)				
-						≥75% / 277VA	<u>()</u>			
	TOTAL HARMONIC DISTORTION		0				0)			
INPUT			r to "TOTAL HA			, ,	00.5%	00.5%	000/	00.5%
	EFFICIENCY (Typ.)	90%	90%	91.5%	92.5%	92.5%	92.5%	92.5%	93%	93.5%
	AC CURRENT (Typ.)	4A / 115VAC	2A/230V	-	277VAC					
	INRUSH CURRENT (Typ.)	COLD START	75A(twidth=570	us measured a	t 50% Ipeak) at 1	230VAC; Per NE	EMA 410			
	MAX. No. of PSUs on 16A CIRCUIT BREAKER	2 units (circui	t breaker of typ	oe B) / 4 units (	(circuit breake	r of type C) at 23	30VAC			
	LEAKAGE CURRENT	<0.75mA/27	7VAC							
		95 ~ 108%								
	OVER CURRENT	Constant current limiting, recovers automatically after fault condition is removed								
		Constant current limiting, recovers automatically after fault condition is removed Hiccup mode, recovers automatically after fault condition is removed								
PROTECTION	SHORT CIRCUIT					1	42 401/	48~54V	EE (2)/	60~67V
	OVER VOLTAGE	13.5 ~ 18V Shut down an	d latch off o/p	23.5 ~ 27.5V voltage, re-pov		33 ~ 39V rer	43 ~ 49V	48 ~ 54 V	55 ~ 63V	60~07V
	OVER TEMPERATURE	Shut down o/p voltage, recovers automatically after temperature goes down								
	WORKING TEMP.	Tcase= -40 ~	+90°C (Pleas	e refer to "OU <sup>-</sup>	TPUT LOAD v	s TEMPERATU	JRE" section)			
-	MAX. CASE TEMP.	Tcase= +90°					,			
-			non-condensir	ηα						
ENVIRONMENT F	STORAGE TEMP., HUMIDITY	-40 ~ +80°C, 10 ~ 95% RH								
	TEMP. COEFFICIENT	±0.03%/°C (0~50°C)								
			· · ·		70	X X 7				
	VIBRATION	10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes								
	SAFETY STANDARDS	UL1012, CAN/CSA-C22.2 No. 107.1-01, UL8750(type"HL"), CSA C22.2 No. 250.0-08; EN/AS/NZS 61347-1,EN/AS/NZS 61347-2-13 independent (except for HLG-240H C type); UL60950-1(except for AB type),UL8750,TUV EN60950-1;GB19510.1,GB19510.14; IP65 or IP67;J61347-1,J61347-2-13(except for B,AB and D-type),BIS IS15885( for 48V only),EAC TP TC 004, KC61347-1,KC61347-2-13(except for AB,C,D-type) approved								
SAFETY &	WITHSTAND VOLTAGE	I/P-O/P:3.75	KVAC I/P-F	G:2KVAC O	/P-FG:1.5KVA	AC .				
EMC	ISOLATION RESISTANCE									
		I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C/ 70% RH Compliance to EN55015, EN55032 (CISPR32) Class B, EN61000-3-2 Class C (@ load≧50%) ; EN61000-3-3,								
	EMC EMISSION	GB17743 and GB17625.1,EAC TP TC 020;KC KN15,KN61547(except for AB,C,D-type)								
	EMC IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11, EN61547, EN55024, light industry level (surge immunity Line-Earth 4KV, Line-Line 2KV) EAC TP TC 020;KC KN15,KN61547(except for AB,C,D-type)								
	MTBF	729.2K hrs m	in. Telcordia	a SR-332 (Bello			-HDBK-217F (2	,		
OTHERS	DIMENSION	244.2*68*38.	8mm (L*W*H)(	HLG-240H-Bla	nk/A/B) 2	251*68*38.8mm				
	PACKING	1.3Kg; 12pcs/	16.6Kg/0.84Cl	JFT(HLG-240-	Blank/A/B)	1.23Kg; 12pc	cs/15.8Kg/1.16	6CUFT(HLG-24	l0 C-Type)	
NOTE	1. All parameters NOT special	lly mentioned a	are measured a	at 230VAC inp	out, rated curre	ent and 25°C o	of ambient tem	perature.		
NOTE	<ol> <li>All parameters NOT specially mentioned are measured at 230VAC input, rated current and 25<sup>°C</sup> of ambient temperature.</li> <li>Ripple &amp; noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf &amp; 47uf parallel capacitor.</li> <li>Tolerance : includes set up tolerance, line regulation and load regulation.</li> <li>Please refer to "DRIVING METHODS OF LED MODULE".</li> <li>De-rating may be needed under low input voltages. Please refer to "STATIC CHARACTERISTIC" sections for details.</li> <li>Length of set up time is measured at first cold start. Turning ON/OFF the driver may lead to increase of the set up time.</li> <li>The driver is considered as a component that will be operated in combination with final equipment. Since EMC performance will be affected b complete installation, the final equipment manufacturers must re-qualify EMC Directive on the complete installation again.</li> <li>To fulfill requirements of the latest ErP regulation for lighting fixtures, this LED driver can only be used behind a switch without permanently connected to the mains.</li> <li>This series meets the typical life expectancy of &gt;62,000 hours of operation when Tcase, particularly (c) point (or TMP, per DLC), is about 75" 10. Please refer to the warranty statement on MEAN WELL's website at http://www.meanwell.com.</li> </ol>							y the		
	<ol> <li>9. This series meets the typica</li> <li>10. Please refer to the warran</li> </ol>	ty statement of derating of 3.5	n MEAN WELI °C/1000m with	L's website at fanless mode	http://www.me	anwell.com. 1000m with far	n models for o	perating altitud		



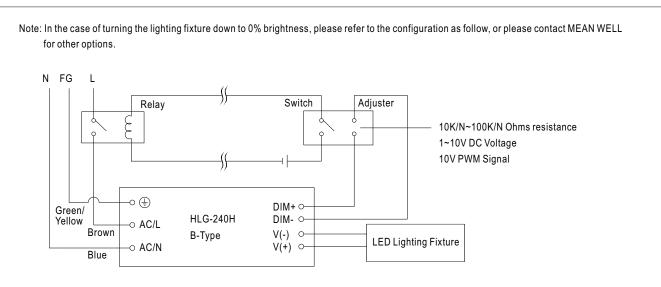






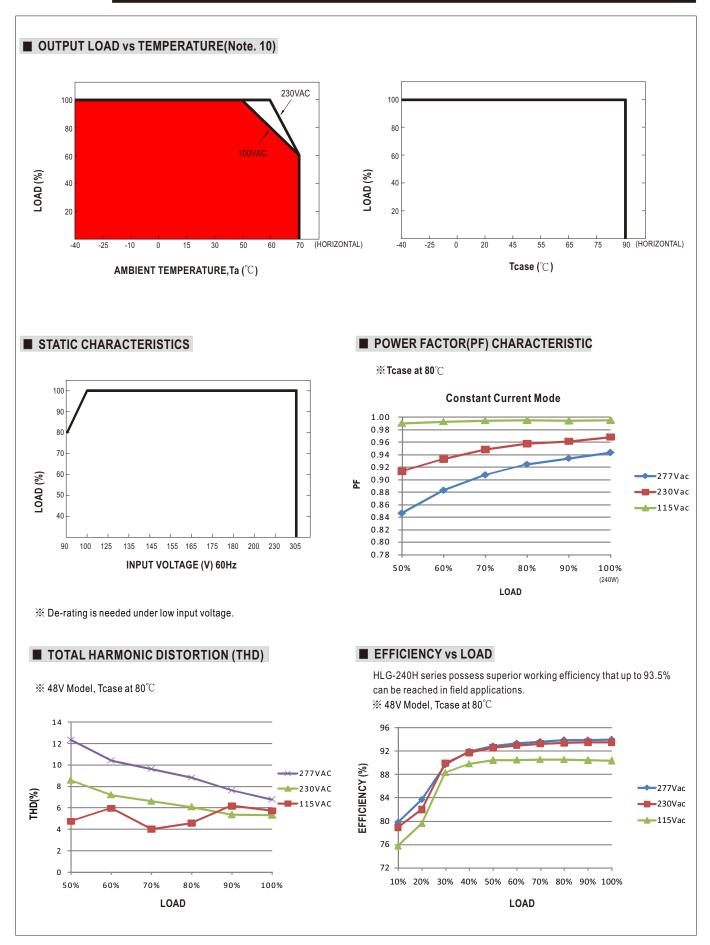


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Using a switch and relay can turn ON/OFF the lighting fixture.

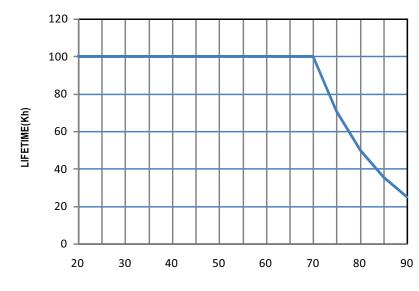






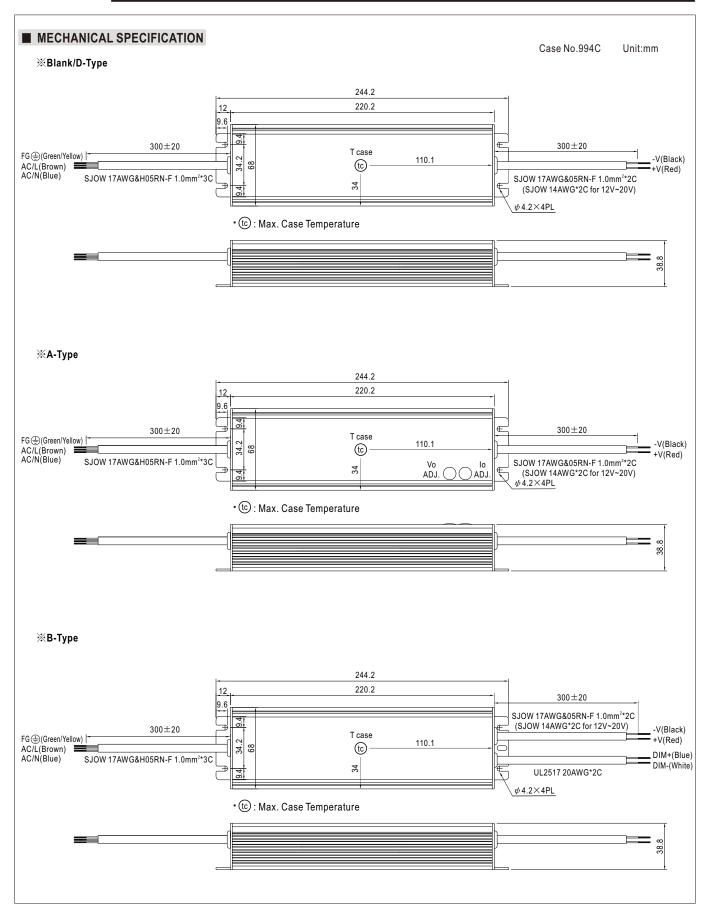
HLG-240H series

LIFE TIME



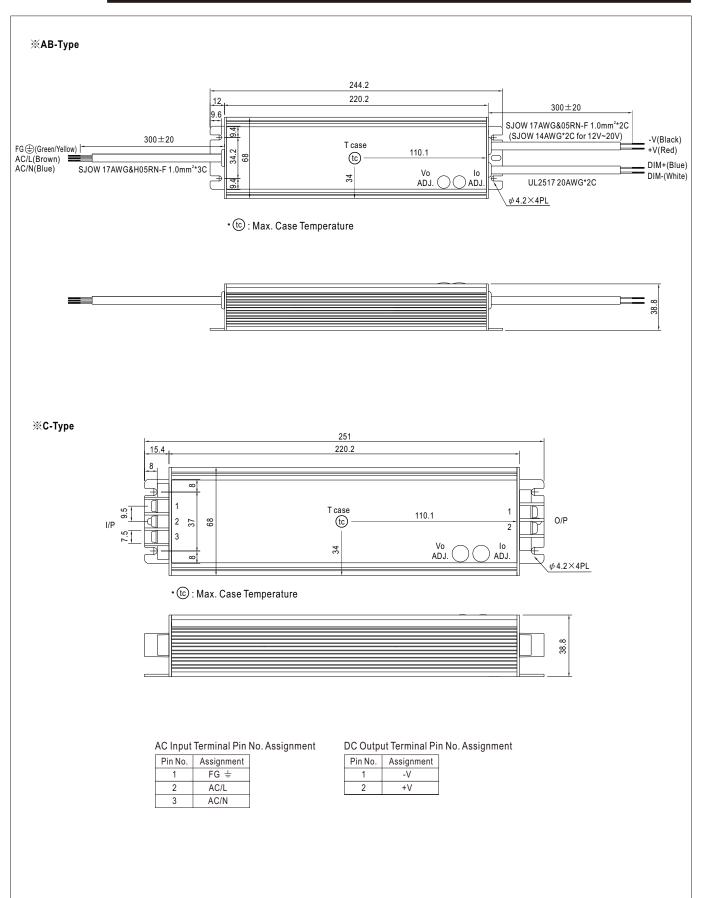
Tcase (°C)





File Name:HLG-240H-SPEC 2019-12-10





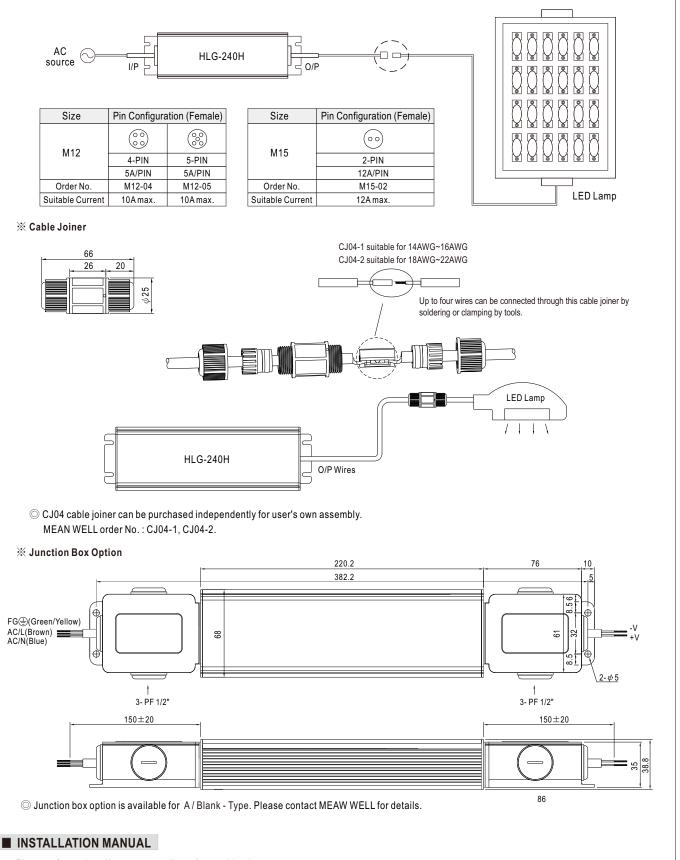


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#### WATERPROOF CONNECTION

#### $\divideontimes {\rm Waterproof\, connector}$

Waterproof connector can be assembled on the output cable of HLG-240H to operate in dry/wet/damp or outdoor environment.



Please refer to : http://www.meanwell.com/manual.html



CE

For the following equipment :

#### Product Name: LED Driver

Model Designation: HLG-240x-yz (x=H or blank ; y=12,15,20,24,30,36,42,48 or 54 ; z=A,B,C,AB or blank)

is herewith confirmed to comply with the requirements set out in the Council Directive, the following standards were applied :

#### RoHS Directive (2011/65/EU)、(EU)2015/863

#### Energy-Related Products Directive (2009/125/EC) Implementing measure COMMISSION REGULATION(EU) No 2019/2020

#### Low Voltage Directive (2014/35/EU) :

EN 61347-1:2015 ; EN 61347-2-13:2014+A1

TUV certificate No : R50171751 (for y=A,B,AB,Blank type) TUV certificate No : R50171244 (for y=C type)

### Electromagnetic Compatibility Directive (2014/30/EU) :

**EMI (Electro-Magnetic Interference)** Conducted emission / Radiated emission

Harmonic current

Voltage flicker

EN IEC 55015:2019+A11:2020

 EN IEC 61000-3-2:2019
 Class C(≥50% load)

 EN 61000-3-3:2013+A1:2019
 Class C(≥50% load)

EMS (Electro-Magnetic Susceptibility)

EN 61547:2009			
ESD air	EN 61000-4-2:2009	Level 4	15KV
ESD contact	EN 61000-4-2:2009	Level 4	8KV
RF field susceptibility	EN IEC 61000-4-3:2020	Level 2	3V/m
EFT bursts	EN 61000-4-4:2012	Level 2	1KV/5KHz
Surge susceptibility	EN 61000-4-5:2014+A1:2017	Level 4	2KV/Line-Line
Surge susceptibility	EN 61000-4-5:2014+A1:2017	Level 4	4KV/Line-Earth
Conducted susceptibility	EN 61000-4-6:2014	Level 2	3V
Magnetic field immunity	EN 61000-4-8:2010	Level 2	3A/m
Voltage dip, interruption	EN IEC 61000-4-11:2020	30% dip 10 periods	100% interruptions 0.5 periods

Note:

Component power supply will be operated with a final equipment. Since EMC performance will be affected by the complete installation, the final equipment manufacturers must re-qualify EMC Directive on the complete installation again. Tests above are only to be performed with intended loads, i.e. either with LEDs or resistive load. For guidance on how to perform these EMC tests, please refer to TDF (Technical Documentation File)

To fulfill requirements of the latest ErP regulation for lighting fixtures, this LED power supply can only be used behind a switch without permanently connected to the mains.

This Declaration is effective from serial number GC1xxxxxxx

Person responsible for marking this declaration :

MEAN WELL	Enterprise	es Co.,	Ltd.
() (	NI a con a N		

(Manufacturer Name)			
No.28, Wuquan 3rd Rd., Wu	gu Dist., New Taipei Cit	ty 24891, Taiwan	
(Manufacturer Address)	/) -		
Aries Jian/Director, Group R & D :	Tries	Alex Tsai/Director, Marketing Department:	(-)
(Name / Position)	(Signature)	(Name / Position)	(Signature)
Taiwan	Aug. 16th, 2021		
(Place)	(Date)		





## **Declaration of Conformity**

For the following equipment :

Product Name: Switching Power Supply

Model Designation: HLG-240x-yz (x=H or blank ; y=12,15,20,24,30,36,42,48 or 54; z=A ,B ,C or blank)

is herewith confirmed to comply with the requirements set out in the Council Directive, the following standards

Low Voltage Directive		(EU)2015/863				
EN62368-1:2014+A11:201	•	,	B certificate	No : D	K-91598-UL	
Electromagnetic Com EMI (Electro-Magnetic In Conducted emission / Rac	terference)	) ion	: (L		Class B	
Harmonic current	EN61000	-3-2:2014				
Voltage flicker	EN61000	-3-3:2013				
EMS (Electro-Magnetic S	Susceptibili	ty)				
EN55024:2010+A1:2015	EN61000-6	6-2:2005				
ESD air	EN61000	-4-2:2009	Le	evel 3	8KV	
ESD contact	EN61000	-4-2:2009	Le	evel 2	4KV	
RF field susceptibility	EN61000	-4-3:2006+A1:2008+A2	2:2010 Le	evel 3	10V/m	
EFT bursts	EN61000	-4-4:2012	Le	evel3	2KV/5KHz	
Surge susceptibility	EN61000	-4-5:2014	Le	evel 4	2KV/Line-Line	
Surge susceptibility	EN61000	-4-5:2014	Le	evel 4	4KV/Line-Earth	
Conducted susceptibility	EN61000	-4-6:2014	Le	evel 3	10V	
Magnetic field immunity	EN61000	-4-8:2010	Le	evel 4	30A/m	
enclosure. Since EMC perform EMC Directive on the complete The EMC tests mentioned ab	with load will nance will be e installation a ove are perfo orm these EN	be installed into final equation affected by the complete in again. Irmed using a well defined IC tests, please refer to "E	ipment which stallation, the metal plate to EMI testing of	consist final equ simulate	riods >95% interruptions 250 p s of an electronically shielded ipment manufacturers must re e said metal enclosure. ent power supplies".(as availa	d metal -qualify
This Declaration is effective fi	rom serial nur	mber HB9xxxxxx				
Person responsible for ma	arking this de	eclaration :				
MEAN WELL Enterprises (Manufacturer Name) No.28, Wuquan 3rd Rd., V		New Taipei City 24891,	Taiwan			
(Manufacturer Address) Johnny Huang/Manager, Certifi (Name / Pasitian)	cation Center		llex Tsai/Directo Name / Positio		eting Department : (Signature)	6
(Name / Position)						
(Name / Position) Taiwan (Place)		Dec. 30th, 2019 (Date)				