



TAIWAN















Features

- Constant Voltage + Constant Current mode output
- Metal housing with class 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

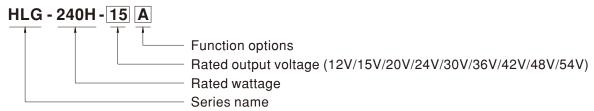
Applications

- · 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 $-40^{\circ}\text{C} \sim +90^{\circ}\text{C}$ 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



Type	IP Level	Function	Note
Blank	IP67	Io and Vo fixed	In Stock
Α	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



240W Constant Voltage + Constant Current LED Driver

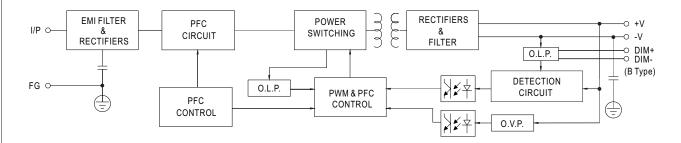
SPECIFICATION

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		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	150mVp-p	200mVp-p	250mVp-p	250mVp-p	250mVp-p	350mVp-p
	, ,			only (via built					** F F	, , , , , , , , , , , , , , , , , , ,
	VOLTAGE ADJ. RANGE	11.2 ~ 12.8V			22.4 ~ 25.6V		33.5 ~ 38.5V	39 ~ 45V	44.8 ~ 51.2V	50 ~ 57V
DUTPUT				only (via built						
	CURRENT ADJ. RANGE	8 ~ 16A	7.5 ~ 15A	6 ~ 12A	5 ~ 10A	4 ~ 8A	3.3 ~ 6.7A	2.86 ~ 5.72A	2.5 ~ 5A	2.23 ~ 4.45
	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%	±0.5%	±0.5%	±0.5%	±0.5%
	LOAD REGULATION	±2.0%	±1.5%	±1.0%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%
		1000ms,80ms		00ms,80ms/2		_ 0.070	_ 0.0 /0	- 0.070	1 = 0.070	_ 0.070
	HOLD UP TIME (Typ.)	15ms / 115VA		7001113,001113/2	.00 1/10					
	TIOLD OF TIME (Typ.)	90 ~ 305VAC	127 ~ 431	IVDC						
	VOLTAGE RANGE Note.5			ARACTERISTI	IC" section)					
	FREQUENCY RANGE	47 ~ 63Hz		74101011	10 00011011)					
	TREGUENCTRANGE		\/AC DE>00	5/230VAC @ fu	ull lood					
	POWER FACTOR (Typ.)			•		C" acation)				
		,		CTOR (PF) CH		C section) ≧75% / 277VA	C)			
MDUT	TOTAL HARMONIC DISTORTION		_	ARMONIC DIS	_		()			
INPUT	FEFICIENOV (T)	`					00.50/	00.50/	000/	00.50/
	EFFICIENCY (Typ.)	90%	90%	91.5%	92.5%	92.5%	92.5%	92.5%	93%	93.5%
	AC CURRENT (Typ.)	4A / 115VAC 2A / 230VAC 1.2A / 277VAC								
	INRUSH CURRENT (Typ.)	COLD START 75A(twidth=570µs measured at 50% Ipeak) at 230VAC; Per NEMA 410								
	MAX. No. of PSUs on 16A CIRCUIT BREAKER	2 units (circui	2 units (circuit breaker of type B) / 4 units (circuit breaker of type C) at 230VAC							
	LEAKAGE CURRENT	<0.75mA/27	<0.75mA/277VAC							
	OVER CURRENT	95 ~ 108%								
	OVER CORRECT	Constant current limiting, recovers automatically after fault condition is removed								
PROTECTION	SHORT CIRCUIT	Hiccup mode, recovers automatically after fault condition is removed								
KOILOIION	OVER VOLTAGE	13.5 ~ 18V 17.5 ~ 21.5V 23.5 ~ 27.5V 27 ~ 34V 33 ~ 39V 43 ~ 49V 48 ~ 54V							55 ~ 63V	60 ~ 67V
	OVER VOLIAGE	Shut down and latch off o/p voltage, re-power on to recover								
	OVER TEMPERATURE	Shut down o/p voltage, recovers automatically after temperature goes down								
	WORKING TEMP.	Tcase=-40 ~ +90°C (Please refer to "OUTPUT LOAD vs TEMPERATURE" section)								
	MAX. CASE TEMP.	Tcase=+90°C								
-11/10011115115	WORKING HUMIDITY	20 ~ 95% RH non-condensing								
ENVIRONMENT	STORAGE TEMP., HUMIDITY	-40 ~ +80°C,	10 ~ 95% RH							
	TEMP. COEFFICIENT	±0.03%/°C (0~50°C)								
	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 &	Y & WITHSTAND VOLTAGE I/P-O/P:3.75KVAC I/P-FG:2KVAC O/P-FG:1.5KVAC									
EMC	ISOLATION RESISTANCE	I/P-O/P, I/P-FG; 0/P-FG:100M Ohms / 500VDC / 25°C / 70% RH								
	EMC EMISSION		,	,	, ,	N61000-3-2 C 1547(except fo	()	, ,	1000-3-3,	
	EMC IMMUNITY					5024, light indu	ustry level (sur	ge immunity Lir	ne-Earth 4KV, L	ine-Line 2K\
	MTBF	EAC TP TC 020;KC KN15,KN61547(except for AB,C,D-type) 729.2K hrs min. Telcordia SR-332 (Bellcore); 207.9K hrs min. MIL-HDBK-217F (25°C)								
		244.2*68*38.8mm (L*W*H)(HLG-240H-Blank/A/B) 251*68*38.8mm (L*W*H)(HLG-240H C-Type)								
OTHERS		244.2*68*38	8mm (L*W*H)(I	HLG-240H-Bla	nk/A/B) 2	51*68*38 8mm	(L*W*H)(HI G	-240H C-Tvne)		
OTHERS	DIMENSION PACKING		, , ,	HLG-240H-Bla JFT(HLG-240-			n (L*W*H)(HLG cs/15.8Kg/1.16	, , ,		

- Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1 uf & 47 uf parallel capacitor.
- 3. Tolerance : includes set up tolerance, line regulation and load regulation.
- 4. Please refer to "DRIVING METHODS OF LED MODULE".
- 5. De-rating may be needed under low input voltages. Please refer to "STATIC CHARACTERISTIC" sections for details.
- 6. 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.
- 7. The driver is considered as a component that will be operated in combination with 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.
- 8. 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.
- 9. This series meets the typical life expectancy of >62,000 hours of operation when Tcase, particularly (c) point (or TMP, per DLC), is about 75° C or less.
- 10. Please refer to the warranty statement on MEAN WELL's website at http://www.meanwell.com.
- 11. The ambient temperature derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500ft).
- 12. For any application note and IP water proof function installation caution, please refer our user manual before using. https://www.meanwell.com/Upload/PDF/LED_EN.pdf

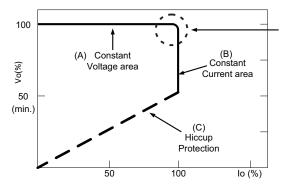
■ BLOCK DIAGRAM

Fosc: 100KHz



■ DRIVING METHODS OF LED MODULE

X This series is able to work in either Constant Current mode (a direct drive way) or Constant Voltage mode (usually through additional DC/DC driver) to drive the LEDs.



Typical output current normalized by rated current (%)

In the constant current region, the highest voltage at the output of the driver depends on the configuration of the end systems.

Should there be any compatibility issues, please contact MEAN WELL.

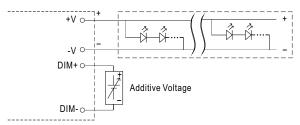


■ DIMMING OPERATION



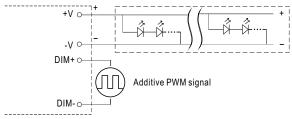
imes 3 in 1 dimming function (for B/AB-Type)

- Output constant current level can be adjusted by applying one of the three methodologies between DIM+ and DIM-:
 - 1 ~ 10VDC, or 10V PWM signal or resistance.
- Direct connecting to LEDs is suggested. It is not suitable to be used with additional drivers.
- Dimming source current from power supply: $100\mu A$ (typ.)
- O Applying additive 1 ~ 10VDC



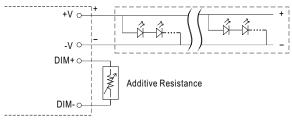
"DO NOT connect "DIM- to -V"

O Applying additive 10V PWM signal (frequency range 100Hz ~ 3KHz):

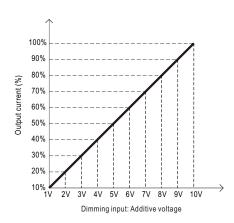


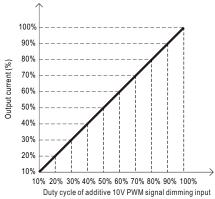
"DO NOT connect "DIM- to -V"

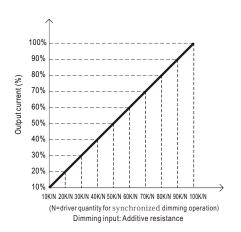
O Applying additive resistance:



"DO NOT connect "DIM- to -V"

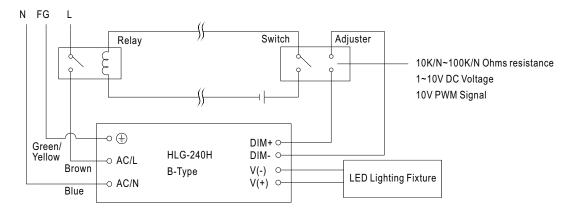






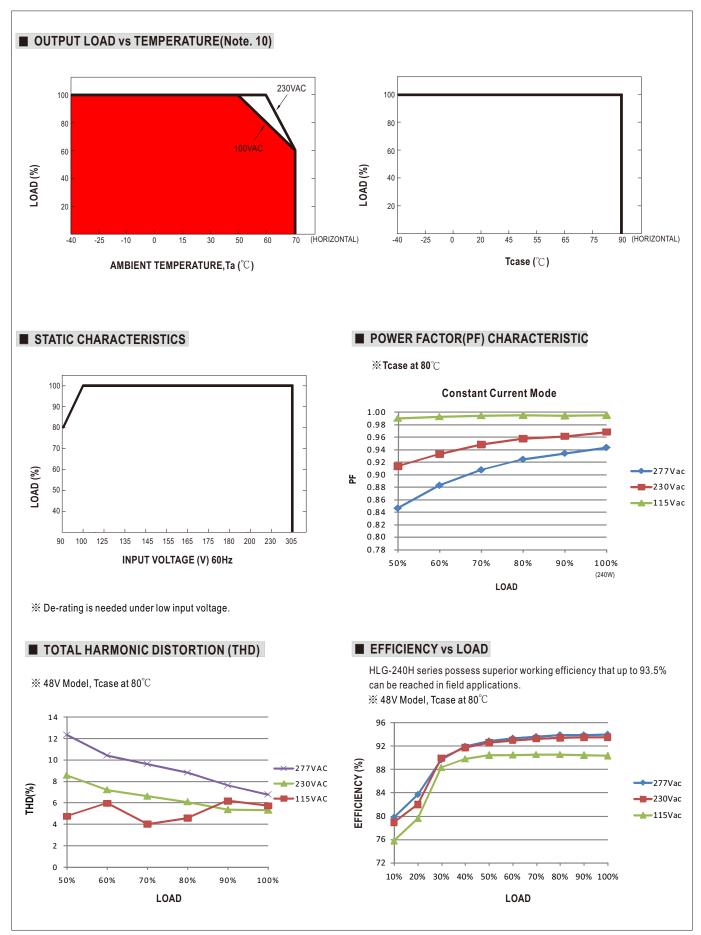


Note: In the case of turning the lighting fixture down to 0% brightness, please refer to the configuration as follow, or please contact MEAN WELL for other options.



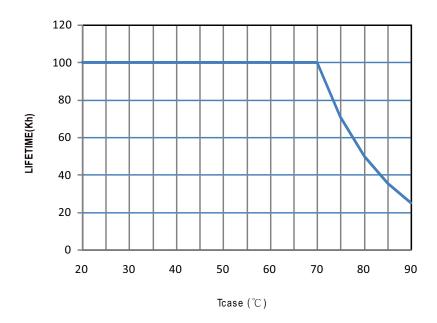
Using a switch and relay can turn ON/OFF the lighting fixture.

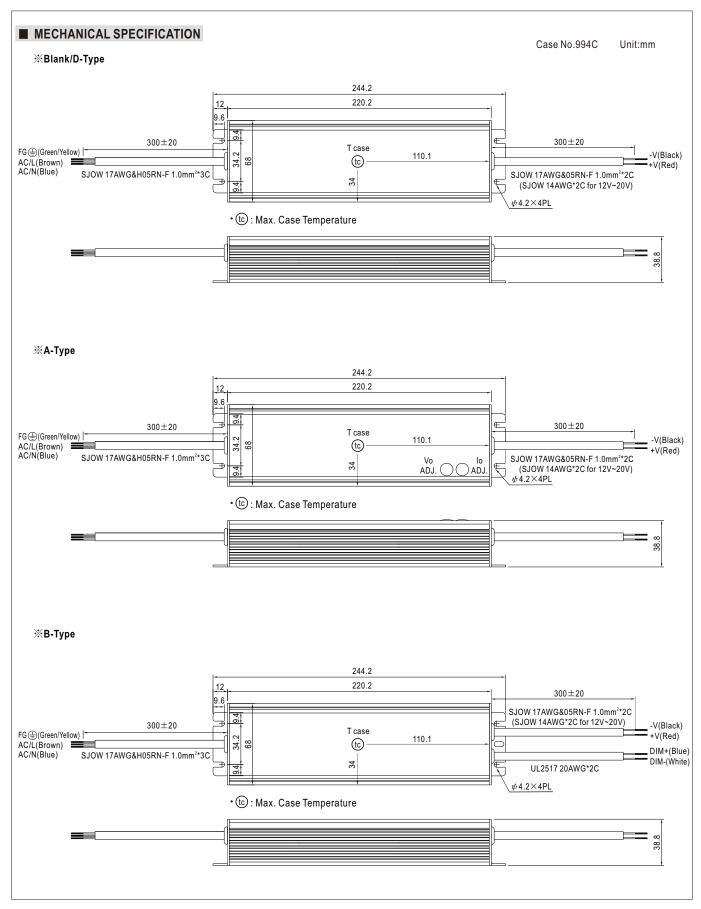




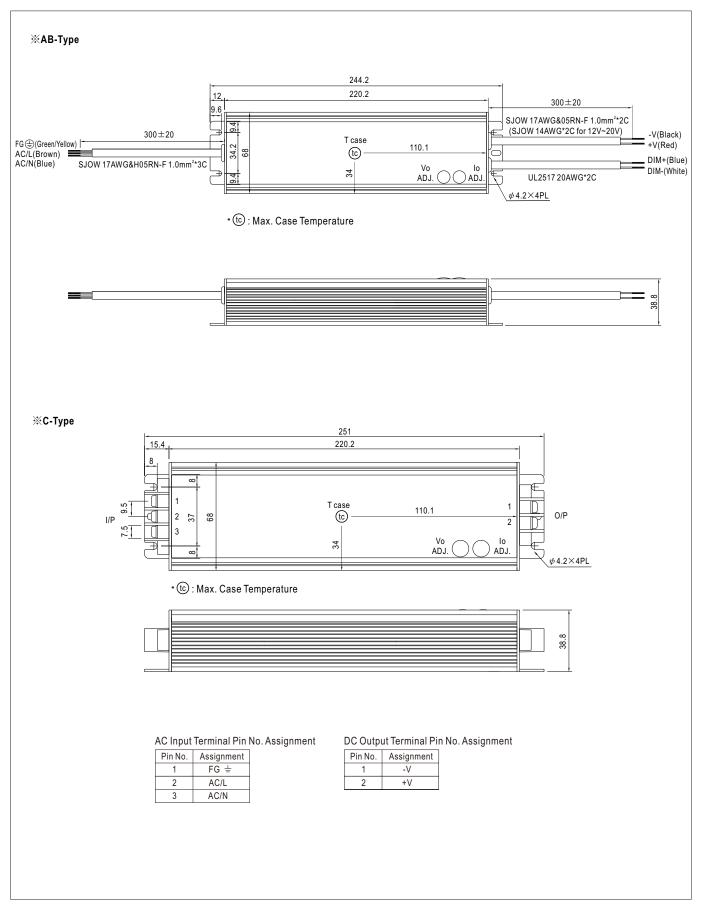


■ LIFE TIME







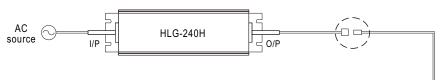




■ WATERPROOF CONNECTION

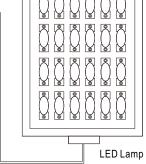
Waterproof connector

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

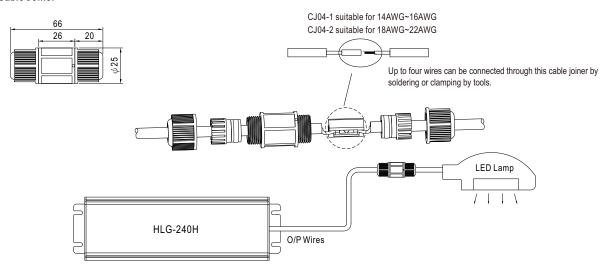


Size	Pin Configuration (Female)			
M12	000	000		
IVITZ	4-PIN	5-PIN		
	5A/PIN	5A/PIN		
Order No.	M12-04	M12-05		
Suitable Current	10A max.	10A max.		

Size	Pin Configuration (Female)		
M15	00		
IVIII	2-PIN		
	12A/PIN		
Order No.	M15-02		
Suitable Current	12A max.		

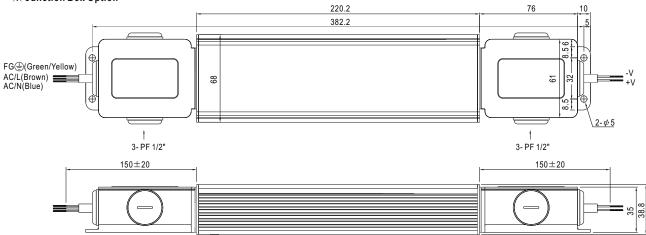


※ Cable Joiner



© CJ04 cable joiner can be purchased independently for user's own assembly. MEAN WELL order No.: CJ04-1, CJ04-2.

X Junction Box Option



■ INSTALLATION MANUAL

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





Declaration of Conformity

For the following	equipment	
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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):

TUV certificate No: R50171751 (for y=A,B,AB,Blank type) EN 61347-1:2015; EN 61347-2-13:2014+A1

TUV certificate No: R50171244 (for y=C type)

Electromagnetic Compatibility Directive (2014/30/EU):

EMI (Electro-Magnetic Interference)

Conducted emission / Radiated emission

EN IEC 55015:2019+A11:2020

Harmonic current	EN IEC 61000-3-2:2019	Class C(≥50% load)
Voltage flicker	EN 61000-3-3:2013+A1:2019	

EMS (Electro-Magnetic Susceptibility)

VI.	61	154	7・ク	Λ	n	а
 v	()	1.)4			ı,	-

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

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 Enterprises Co., Ltd.

(Manufacturer Name)

No.28, Wuquan 3rd Rd., Wugu Dist., New Taipei City 24891, Taiwan

(Manufacturer Address)

Aries Jian/Director, Group R & D:

(Name / Position)

(Signature)

Alex Tsai/Director, Marketing Department:

(Name / Position)

(Signature)

Taiwan

Aug. 16th, 2021

(Place)

(Date)





	Declaration of 0	Conformity					
For the following equipmen	nt:						
Product Name: Switching F	Product Name: Switching Power Supply						
Model Designation: HLG-2	40x-yz (x=H or blank ; y=12,15,20),24,30,36,42,48 or 5	54; z=A ,B ,C or blank)				
is herewith confirmed to comply with the requirements set out in the Council Directive, the following standards were applied :							
RoHS Directive (2011 Low Voltage Directive (, , ,						
EN62368-1:2014+A11:201	7	CB certificate No: D	K-91598-UL				
Electromagnetic Comp EMI (Electro-Magnetic Int Conducted emission / Rad		U) :	Class B				
Harmonic current	EN61000-3-2:2014						
Voltage flicker	EN61000-3-3:2013						
EMS (Electro-Magnetic S	usceptibility)						
EN55024:2010+A1:2015	EN61000-6-2:2005						
ESD air	EN61000-4-2:2009	Level 3	8KV				
ESD contact	EN61000-4-2:2009	Level 2	4KV				
RF field susceptibility	EN61000-4-3:2006+A1:2008+A	2:2010 Level 3	10V/m				
EFT bursts	EN61000-4-4:2012	Level3	2KV/5KHz				
Surge susceptibility	EN61000-4-5:2014	Level 4	2KV/Line-Line				
Surge susceptibility	EN61000-4-5:2014	Level 4	4KV/Line-Earth				
Conducted susceptibility	EN61000-4-6:2014	Level 3	10V				
Magnetic field immunity	EN61000-4-8:2010	Level 4	30A/m				
Voltage dip, interruption EN61000-4-11:2004 >95% dip 0.5 periods 30% dip 25 periods >95% interruptions 250 periods Note: A component power supply with load will be installed into final equipment which consists of an electronically shielded metal enclosure. Since EMC performance will be affected by the complete installation, the final equipment manufacturers must re-qualify EMC Directive on the complete installation again. The EMC tests mentioned above are performed using a well defined metal plate to simulate said metal enclosure. For guidance on how to perform these EMC tests, please refer to "EMI testing of component power supplies".(as available on http://www.meanwell.com)" and TDF (Technical Documentation File).							
This Declaration is effective from serial number HB9xxxxxxx							
Person responsible for marking this declaration:							
MEAN WELL Enterprises ((Manufacturer Name) No.28, Wuquan 3rd Rd., W	Co., Ltd. /ugu Dist., New Taipei City 24891,	Taiwan					
(Manufacturer Address)	n		Oh				
Johnny Huang/Manager, Certific (Name / Position)		Alex Tsai/Director, Marke (Name / Position)	eting Department : (Signature)				
Taiwan	Dec. 30th, 2019						

(Date)

(Place)