Simpex Electronic AG Binzackerstrasse 33 CH-8620 Wetzikon Telefon +41 44 931 10 30

www.simpex.ch contact@simpex.ch CHE-108.018.777 MWST





HLG-240H series 240W Constant Voltage + Constant Current LED Driver

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Features

Constant Voltage + Constant Current mode output

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- 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

Description



User's Manual ಟಿಕೆ 🔳

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.

110 SELV IP65 IP67 🕝

GTIN CODE

MW Search: https://www.meanwell.com/serviceGTIN.aspx

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

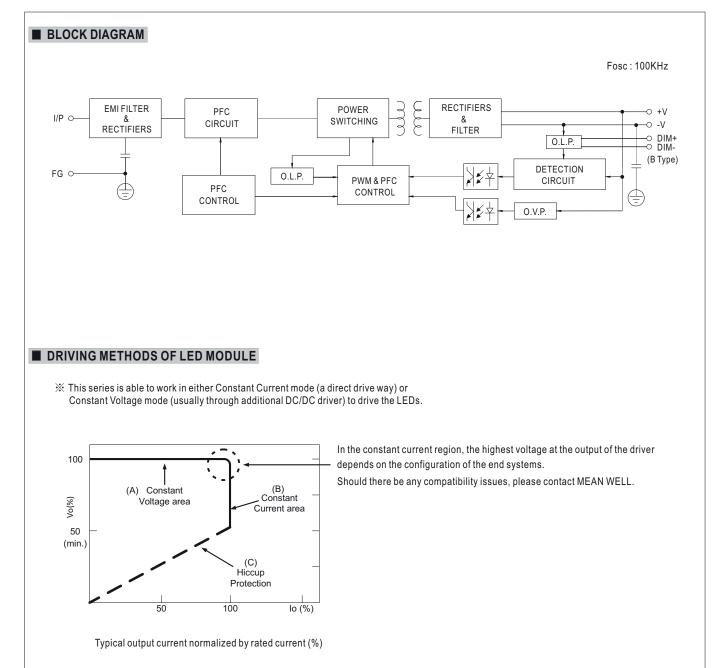


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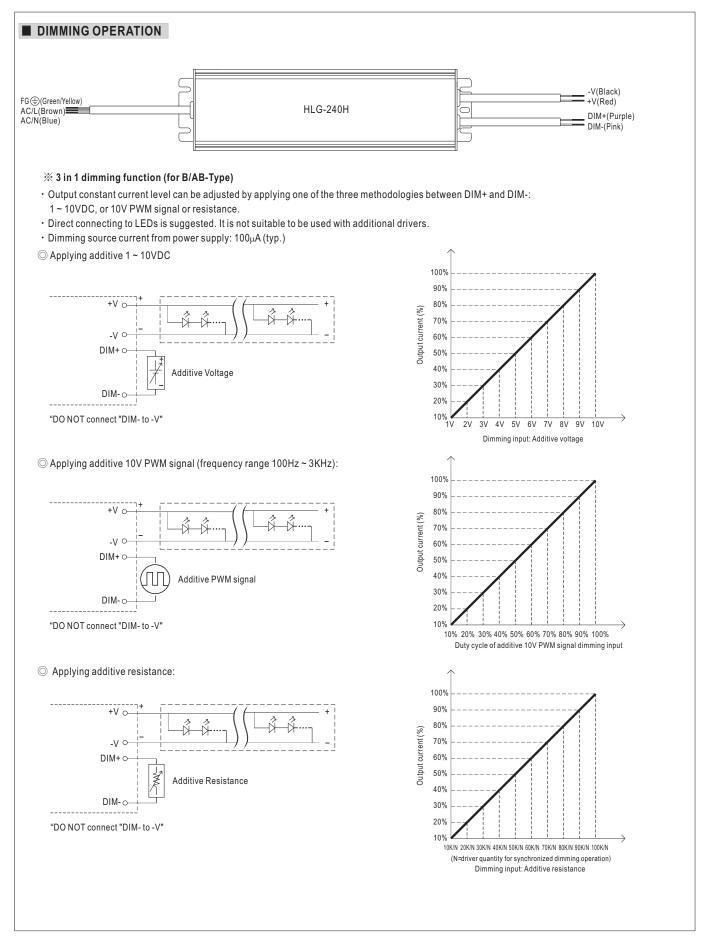
SPECIFICATION

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	
OUTPUT	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	200mVp-p	250mVp-p	250mVp-p	250mVp-p	350mVp-p	
	RIFFLE & NOISE (IIIAX.) Note.2						25011vp-p	230mvp-p	25011vp-p	330111vp-p	
	VOLTAGE ADJ. RANGE	Adjustable for A/AB/C-Type only (via built-in potentiometer) 11.2 ~ 12.8V 14 ~ 16V 18.6 ~ 21.4V 22.4 ~ 25.6V 28 ~ 32V 33.5 ~ 38.5V 39 ~ 45V 44.8 ~ 51.2V 50 ~ 57V									
	CURRENT ADJ. RANGE			e only (via built	· · · · · · · · · · · · · · · · · · ·	, í					
		8~16A	7.5 ~ 15A	6~12A	5~10A	4 ~ 8A	3.3 ~ 6.7A	2.86 ~ 5.72A	-	2.23 ~ 4.45	
	VOLTAGE TOLERANCE Note.3	±2.5%	±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%	$\pm 1.5\%$	±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									
	VOLTAGE RANGE Note.5	90 ~ 305VAC 127 ~ 431VDC (Please refer to "STATIC CHARACTERISTIC" section)									
	FREQUENCY RANGE	47 ~ 63Hz									
	POWER FACTOR (Typ.)	PF≧0.98/115VAC, PF≧0.95/230VAC @ full load									
		(Please refer to "POWER FACTOR (PF) CHARACTERISTIC" section)									
	TOTAL HARMONIC DISTORTION	THD< 20% (@ load≧50% / 115VAC,230VAC; @ load≧75% / 277VAC) (Please refer to "TOTAL HARMONIC DISTORTION (THD)" section)									
INPUT					· · · · ·	, ,	00	00 50	0.081	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/230V	-	/ 277VAC						
	INRUSH CURRENT (Typ.)	COLD START	75A(twidth=570)µs measured a	t 50% lpeak) at :	230VAC; Per N	EMA 410				
	MAX. No. of PSUs on 16A CIRCUIT BREAKER	2 units (circuit breaker of type B) / 4 units (circuit breaker of type C) at 230VAC									
	LEAKAGE CURRENT	<0.75mA/27	7VAC								
PROTECTION	OVER CURRENT	95 ~ 108% Constant current limiting, recovers automatically after fault condition is removed									
	SHORT CIRCUIT	Hiccup mode, recovers automatically after fault condition is removed									
	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 Shut down and latch off o/p voltage, re-power on to recover									
	OVER TEMPERATURE	Shut down o/	p voltage, rec	overs automat	tically after ter	nperature goe	s down				
ENVIRONMENT	WORKING TEMP.	Tcase= -40 ~	+90°C (Pleas	e refer to "OU"	TPUT LOAD v	s TEMPERATU	JRE" section)				
	MAX. CASE TEMP.	Tcase= +90°C									
	WORKING HUMIDITY	20 ~ 95% RH non-condensing									
	STORAGE TEMP., HUMIDITY	-40 ~ +80°C, 10 ~ 95% RH									
	TEMP. COEFFICIENT	±0.03%/°C (0~50°C)									
	VIBRATION	±0.03%/ C (0 ~ 50 C) 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; BS EN/EN/AS/NZS 61347-1, BS EN/EN/AS/NZS 61347-2-13 independent (except for HLG-240H C type); IEC/UL/BS EN/EN 62368-1(except for AB,D type), UL8750; GB19510.1, GB19510.14(except for C-type); 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:3.75KVAC I/P-FG:2KVAC O/P-FG:1.5KVAC									
EMC	ISOLATION RESISTANCE			00M Ohms / 50							
		,	,				SEN/EN6100	0-3-2 Class C	(@ load 250%).	
-	EMC EMISSION	Compliance to BS EN/EN55015, BS EN/EN55032 (CISPR32) Class B, BS EN/EN61000-3-2 Class C (@ load≧50%) ; BS EN/EN61000-3-3,GB17743 and GB17625.1,EAC TP TC 020;KC KN15,KN61547(except for AB,C,D-type) Compliance to BS EN/EN61000-4-2,3,4,5,6,8,11, BS EN/EN61547, BS EN/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	2015.1K hrs r		,			L-HDBK-217F	· · /	\ \		
	DIMENSION		. ,,	HLG-240H-Bla	,	251*68*38.8mm	. , , ,		,		
	PACKING 1. All parameters NOT special	-	-	UFT(HLG-240-		-	-	6CUFT(HLG-24	40 C-Type)		
NOTE	 Ripple & noise are measured. Tolerance : includes set up Please refer to "DRIVING M De-rating may be needed u Length of set up time is me The driver is considered as complete installation, the fin To fulfill requirements of the connected to the mains. This series meets the typica Please refer to the warrant The ambient temperature of the connectation note and the series of the connectation. 	tolerance, line IETHODS OF Inder low input asured at first a component al equipment r latest ErP reg al life expectance ty statement or derating of 3.5	regulation and LED MODUL voltages. Plea cold start. Turn that will be op- nanufacturers ulation for ligh cy of >62,000 n MEAN WEL C/1000m with	d load regulation E". ase refer to "S" ning ON/OFF t erated in comb must re-qualify ting fixtures, th hours of opera L's website at in fanless mode	DTATIC CHARA the driver may bination with fir y EMC Directiv his LED driver ation when Tca http://www.me als and of 5°C/	ACTERISTIC" s lead to increas nal equipment. ve on the comp can only be us ase, particularly anwell.com. 1000m with fau	sections for de se of the set u Since EMC p olete installatio sed behind a s γ (to point (or n models for o	etails. up time. erformance wil on again. switch without p TMP, per DLC operating altitud	Il be affected b bermanently ເ), is about 75ຳ	C or less.	





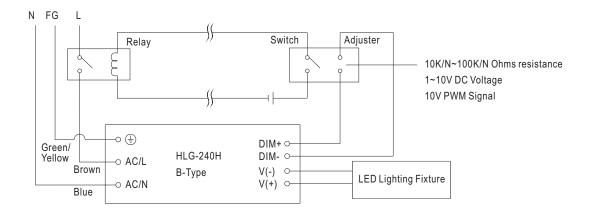






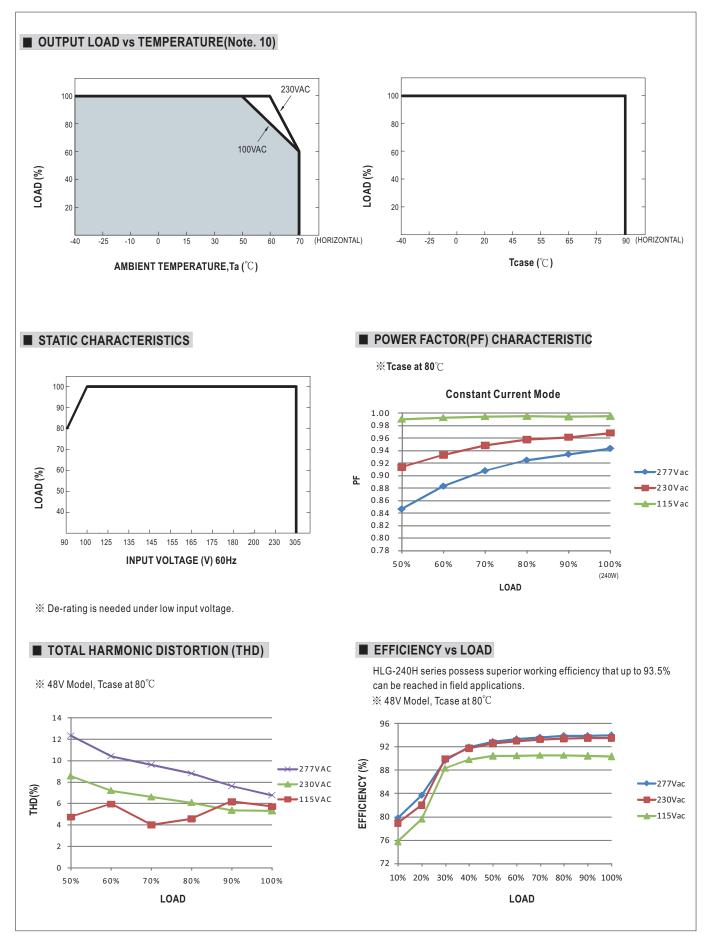
HLG-240H series

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.

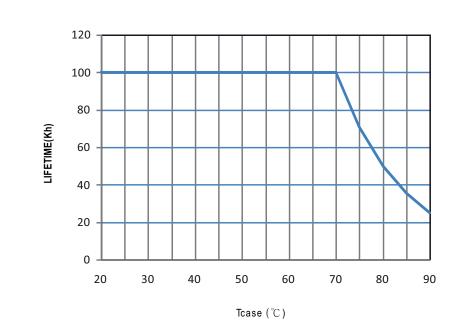




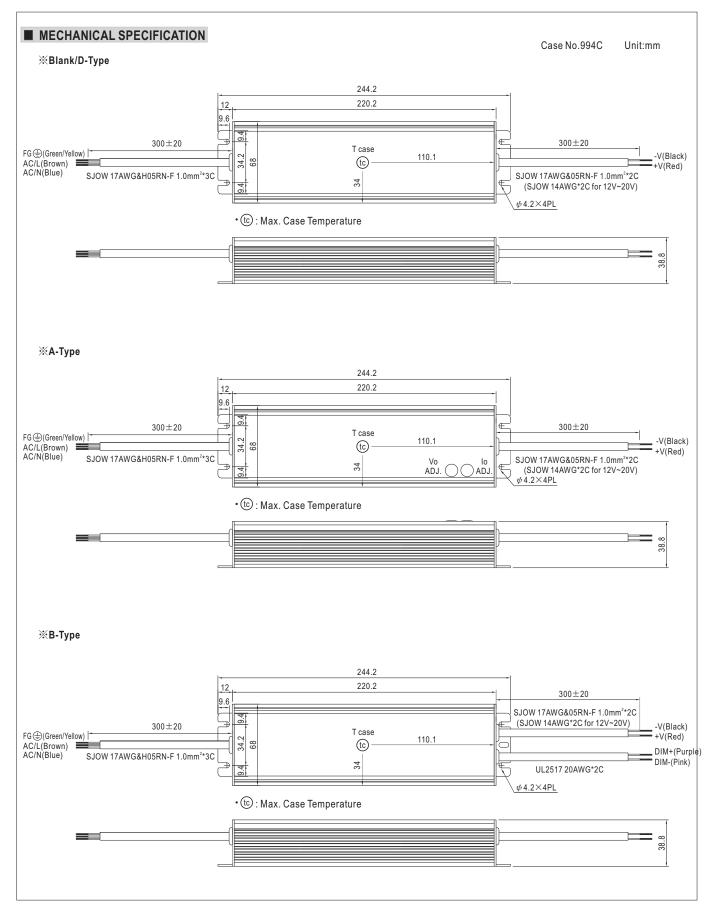


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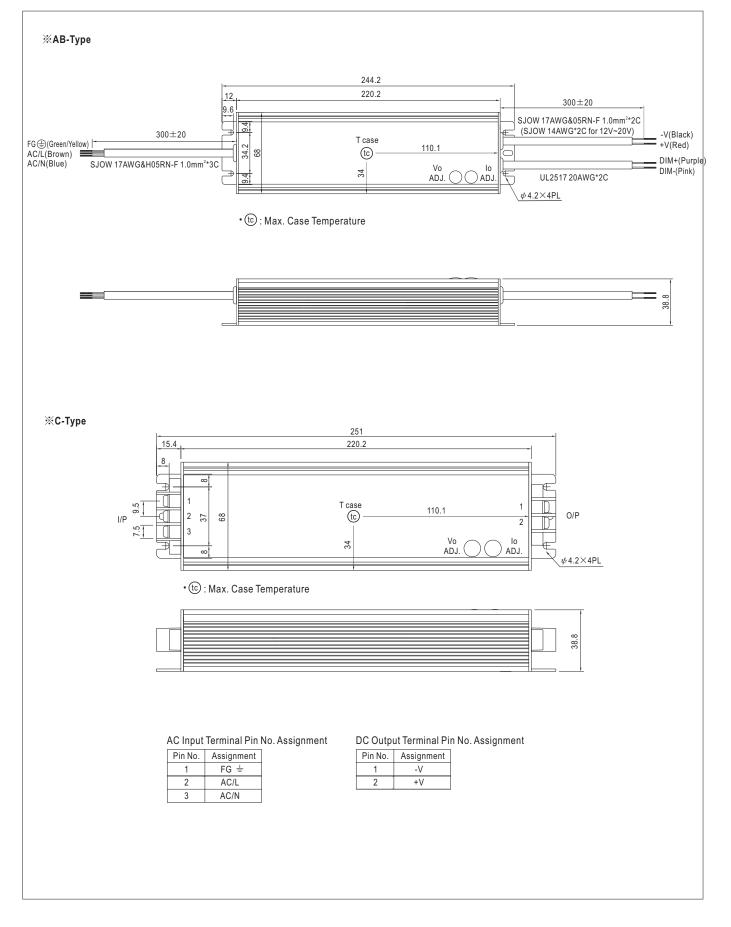
LIFE TIME











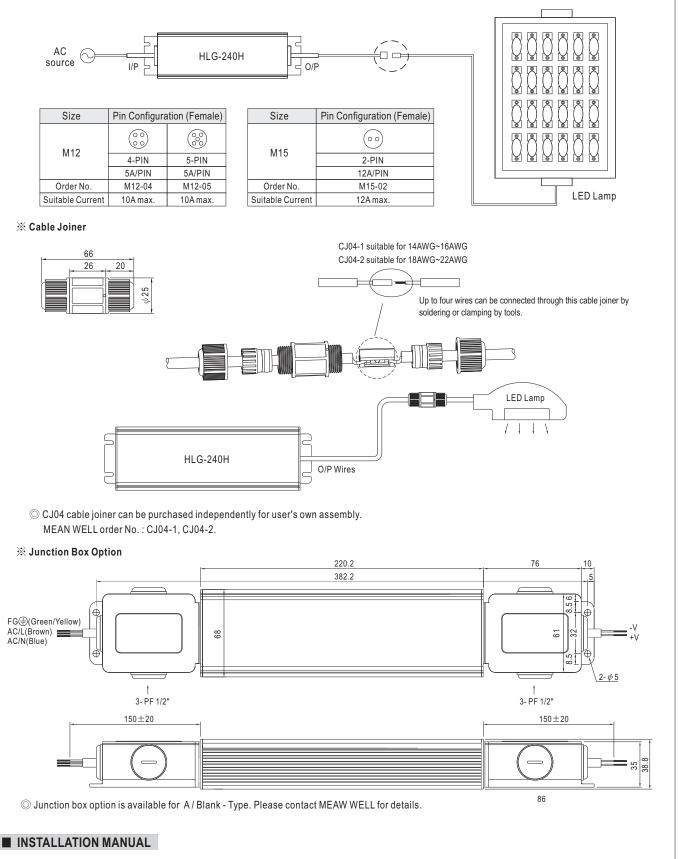


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WATERPROOF CONNECTION

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

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