







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

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° 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



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	150mVp-p	200mVp-p	250mVp-p	250mVp-p	250mVp-p	350mVp-p	
									200m1pp	locourb b	
	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									
OUTPUT						1	33.3 - 30.3 V	33 431	44.0 * 31.2 V	30 - 31 V	
	CURRENT ADJ. RANGE			only (via built		· · ·	0.0.0.74	0.00 5.704	0.5.54	0.00 4.45	
		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		±2.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	
	LINE REGULATION	±0.5%	$\pm 0.5\%$	±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%	$\pm 0.5\%$	±0.5%	±0.5%	
	SETUP, RISE TIME Note.6	1000ms,80m	s/115VAC 5	500ms,80ms/2	30VAC						
	HOLD UP TIME (Typ.)	15ms / 115VAC, 230VAC									
	,	90 ~ 305VAC 127 ~ 431VDC									
	VOLTAGE RANGE Note.5										
	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)									
INPUT				ARMONIC DIS		, , ,					
	EFFICIENCY (Typ.)	90%	90%	91.5%	92.5%	92.5%	92.5%	92.5%	93%	93.5%	
	AC CURRENT (Typ.)	4A / 115VAC	2A/230V	AC 1.2A	277VAC						
	INRUSH CURRENT (Typ.)	COLD START	75A(twidth=570	us measured a	t 50% Ipeak) at	230VAC; Per N	EMA 410				
	MAX. No. of PSUs on 16A										
	CIRCUIT BREAKER	2 units (circui	t breaker of typ	be B) / 4 units (circuit breake	r of type C) at 2	30VAC				
	LEAKAGE CURRENT	<0.75mA/ 277VAC									
			1110								
	OVER CURRENT	95~108%									
			•		•	It condition is r	removed				
PROTECTION	SHORT CIRCUIT			matically after	1		1	1	1	I	
	OVER VOLTAGE	13.5 ~ 18V		23.5 ~ 27.5V		33 ~ 39V	43 ~ 49V	48~54V	55~63V	60~67V	
		Shut down an	d latch off o/p	voltage, re-pov	ver on to recov	er					
	OVER TEMPERATURE	Shut down o/p voltage, recovers automatically after temperature goes down									
	WORKING TEMP.	Tcase= -40 ~	+90°C (Pleas	e refer to "OU ⁻	TPUT LOAD v	s TEMPERATI	JRE" section)				
	MAX. CASE TEMP.	Tcase= +90°C									
	WORKING HUMIDITY	20 ~ 95% RH non-condensing									
ENVIRONMENT	STORAGE TEMP., HUMIDITY										
	TEMP. COEFFICIENT		0								
	VIBRATION	±0.03%/°C (0 ~ 50°C)									
	VIDICATION	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 61347-2-1 independent (except for HLG-240H C type); IEC/UL/EN 62368-1(except for AB,D type),UL8750;GB19510.1,GB19510.14(except fo 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							
EMC		,					lass C (@ lood	1250%) · ENG	1000-3-3		
	EMC EMISSION	Compliance to EN55015, EN55032 (CISPR32) Class B, EN61000-3-2 Class C (@ load ≥50%) ; EN61000-3-3, 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)									
OTHERS	MTBF	729.2K hrs m	n. Telcordia	a SR-332 (Bello	core);207.9K	hrs min. MIL	HDBK-217F (2	25°C)			
	DIMENSION	244.2*68*38.	8mm (L*W*H)(HLG-240H-Bla	nk/A/B)	251*68*38.8mn	n (L*W*H)(HLG	-240H C-Type)		
	PACKING	1.3Kg; 12pcs/	16.6Kg/0.84Cl	JFT(HLG-240-	Blank/A/B)	1.23Kg; 12p	cs/15.8Kg/1.16	CUFT(HLG-24	l0 C-Type)		
NOTE		ly mentioned a	re measured a	at 230VAC inp	out, rated curre						
NOTE	 All parameters NOT specially mentioned are measured at 230VAC input, rated current and 25°C of ambient temperature. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. Tolerance : includes set up tolerance, line regulation and load regulation. Please refer to "DRIVING METHODS OF LED MODULE". De-rating may be needed under low input voltages. Please refer to "STATIC CHARACTERISTIC" sections for details. 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. 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. 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. This series meets the typical life expectancy of >62,000 hours of operation when Tcase, particularly (to point (or TMP, per DLC), is about 75°C or less. Please refer to the warranty statement on MEAN WELL's website at http://www.meanwell.com. 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(650 12. For any application note and IP water proof function installation caution, please refer our user manual before using. 										











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.







HLG-240H series

LIFE TIME



Tcase (°C)











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