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Features

Constant Voltage + Constant Current mode output

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- · Metal housing with class ${\mathbb I}$ 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

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- 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.

SELV IP65 IP67 (PC)

Description

HLG-185H series is a 185W AC/DC LED driver featuring the dual mode constant voltage and constant current output. HLG-185H operates from 90 ~ 305VAC and offers models with different rated voltage ranging between 12V and 54V. Thanks to the high efficiency up to 94%, 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-185H is equipped with various function options, such as dimming methodologies, so as to provide the optimal design flexibility for LED lighting system.

Model Encoding



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
D	IP67	Timer dimming function, contact MEAN WELL for details(safety pending).	By request



HLG-185H series

SPECIFICATION

MODEL			HLG-185H-12	HLG-185H-15	HLG-185H-20	HLG-185H-24	HLG-185H-30	HLG-185H-36	HLG-185H-42	HLG-185H-48	HLG-185H-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		13A	11.5A	9.3A	7.8A	6.2A	5.2A	4.4A	3.9A	3.45A
	RATED POWER		156W	172.5W	186W	187.2W	186W	187.2W	184.8W	187.2W	186.3W
	RIPPLE & NOISE	(max.) Note 2		150mVp-p	150mVp-p	150mVp-p	200mVp-p	200mVp-p	200mVp-p	200mVp-p	200mVp-p
	RIFFLE & NOISE (IIIdx.) Note.2							2001110 0	200111000	2001119-p	20011vp-p
	VOLTAGE ADJ. RANGE		Adjustable for A/AB-Type only (via built-in potentiometer)								
OUTPUT			10.8 ~ 13.5V 13.5 ~ 17V 17 ~ 22V 22 ~ 27V 27 ~ 33V 33 ~ 40V 38 ~ 46V 43 ~ 53V 49 ~ 58V Adjustable for A/AB-Type only (via built-in potentiometer)								
	CURRENT ADJ. RANGE					· · · · · · · · · · · · · · · · · · ·	1	0.0 5.04	2.2 4.44	4.05 0.04	4 70 0 454
			6.5 ~ 13A	5.75 ~ 11.5A		3.9 ~ 7.8A	3.1 ~ 6.2A	2.6 ~ 5.2A	2.2 ~ 4.4A	1.95 ~ 3.9A	1.72 ~ 3.454
	VOLTAGE TOLERANCE Note.3			±2.0%	±1.0%	±1.0%	± 1.0%	±1.0%	± 1.0%	±1.0%	±1.0%
			±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%
	,		3 1000ms,200ms/115VAC 500ms,200ms/230VAC								
	HOLD UP TIME (Typ.)		16ms / 115VAC, 230VAC								
	VOLTAGE RANGE	Note 5	90 ~ 305VAC 127 ~ 431VDC								
	VOLTAGE RANGE Note.5		(Please refer to "STATIC CHARACTERISTIC" section)								
	FREQUENCY RAN	NGE	47 ~ 63Hz								
		(T	PF≧0.98/115VAC, PF≧0.95/230VAC, PF≧0.92/277VAC @ full load								
	POWER FACTOR (Typ.)		(Please refer to "POWER FACTOR (PF) CHARACTERISTIC" section)								
			THD<20% (@ load≥50% / 115VAC.230VAC: @ load≥75% / 277VAC)								
INPUT	TOTAL HARMONIC	USIOKIION	(Please refer to "TOTAL HARMONIC DISTORTION (THD)" section)								
	EFFICIENCY (Typ	.)	91.5%	92%	93%	93.5%	93.5%	93.5%	94%	94%	94%
	AC CURRENT	, 12V	1.8A / 115VA	C 0.8A/2	30VAC 0	.7A/277VAC					
	(Typ.)	15V ~ 54V	2.1A / 115VA			.8A/277VAC					
	INRUSH CURRENT (Typ.)		COLD START 65A(twidth=445/zs measured at 50% lpeak) at 230VAC; Per NEMA 410								
	MAX. No. of PSUs					. ,					
	CIRCUIT BREAKE		4 units (circuit breaker of type B) / 7 units (circuit breaker of type C) at 230VAC								
	LEAKAGE CURRENT		<0.75mA/27	7\/AC							
	OVER CURRENT		95 ~ 108% Constant current limiting, recovers automatically after fault condition is removed								
	SHORT CIRCUIT										
PROTECTION				-	1	-	It condition is r		47 501/	E4 COV	50 CEV
	OVER VOLTAGE		14 ~ 17V	18~21V	23~27V	28 ~ 34V	34 ~ 38V	41 ~ 46V	47 ~ 53V	54 ~ 63V	59 ~ 65V
			Shut down o/p voltage with auto-recovery or re-power on to recovery								
	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								
ENVIRONMENT	WORKING HUMIDITY		20 ~ 95% RH non-condensing								
	STORAGE TEMP., HUMIDITY		-40 ~ +80 °C, 10 ~ 95% RH								
	TEMP. COEFFICIENT		$\pm 0.03\%$ /°C (0~60°C)								
	VIBRATION		10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes								
	SAFETY STANDARDS		UL8750(type"HL"), CSA C22.2 No. 250.0-08;BS EN/EN 61347-1,BS EN/EN 61347-2-13, AS/NZS 61347-1(except for AB-type), AS/NZS 61347-2-13(except for AB-type) independent;GB19510.1,GB19510.14; IP65 or IP67; J61347-1, J61347-2-13(except for B, AB and D-type), EAC TP TC 004, KC61347-1,KC61347-2-13(except for D-type) approved								
SAFETY &	WITHSTAND VOL	TAGE	I/P-O/P:3.75KVAC I/P-FG:2KVAC O/P-FG:1.5KVAC								
EMC	WITHSTAND VOLTAGE										
	ISOLATION RESISTANCE		I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C / 70% RH 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								
			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								
ſ	MTBF		757.2K hrs min. Telcordia SR-332 (Bellcore) ; 192.2K hrs min. MIL-HDBK-217F (25°C)								
OTHERS	DIMENSION		228*68*38.8mm (L*W*H)								
	PACKING		1.15Kg; 12pcs/14.8Kg/0.8CUFT ly mentioned are measured at 230VAC input, rated current and 25°C of ambient temperature.								
NOTE	 Ripple & noise Tolerance : incl Please refer to De-rating may I Length of set up The driver is concomplete install To fulfill require connected to th This series meet Please refer to The ambient to 	are measure udes set up f "DRIVING M be needed ur p time is mea onsidered as lation, the fina ments of the ne mains. ets the typica o the warrant emperature of	d at 20MHz of tolerance, line IETHODS OF nder low input asured at first of a component t al equipment n latest ErP regi I life expectance y statement or	bandwidth by regulation and LED MODULE voltages. Pleas cold start. Turn hat will be ope nanufacturers r ulation for light sy of >62,000 h MEAN WELL C/1000m with	using a 12" tw load regulatio "." se refer to "ST ing ON/OFF ti rated in combinust re-qualify ing fixtures, thi nours of opera 's website at h fanless model	visted pair-wire n. ATIC CHARA he driver may ination with fin EMC Directiv is LED driver of tion when Tca titp://www.mea s and of 5°C/~	e terminated wi CTERISTIC" s lead to increas al equipment. S e on the comp can only be use se, particularly anwell.com. 1000m with fan	th a 0.1uf & 4 ections for det e of the set up Since EMC pe lete installation ed behind a su (c) point (or 1 models for op	7uf parallel cap ails. o time. In again. vitch without p TMP, per DLC; perating altitud	be affected by rermanently), is about 75°C	C or less.











HLG-185H 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-185H series

LIFE TIME













HLG-185H series

WATERPROOF CONNECTION

$\% \ {\rm Waterproof} \ {\rm connector}$

Waterproof connector can be assembled on the output cable of HLG-185H to operate in dry/wet/damp or outdoor environment.

