







Features

- Constant Voltage + Constant Current mode output
- · Metal housing with class ${\rm I}$ design
- Built-in active PFC function
- · Class 2 power unit
- · IP67 / IP65 rating for indoor or outdoor installations
- Function options: output adjustable via potentiometer; 3 in 1 dimming; Timer dimming
- Typical lifetime > 62000 hours
- 7 years warranty

Description

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.

HLG-40H series is a 40W AC/DC LED driver featuring the dual mode constant voltage and constant current output. HLG-40H operates from 90 ~ 305VAC and offers models with different rated voltage ranging between 12V and 54V. Thanks to the high efficiency up to 89.5%, with the fanless design, the entire series is able to operate for -40 ~ +80 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-40H 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 - 40H - 36 A Function options Rated output voltage (12V/15V/20V/24V/30V/36V/42V/48V/54V) Rated wattage Series name

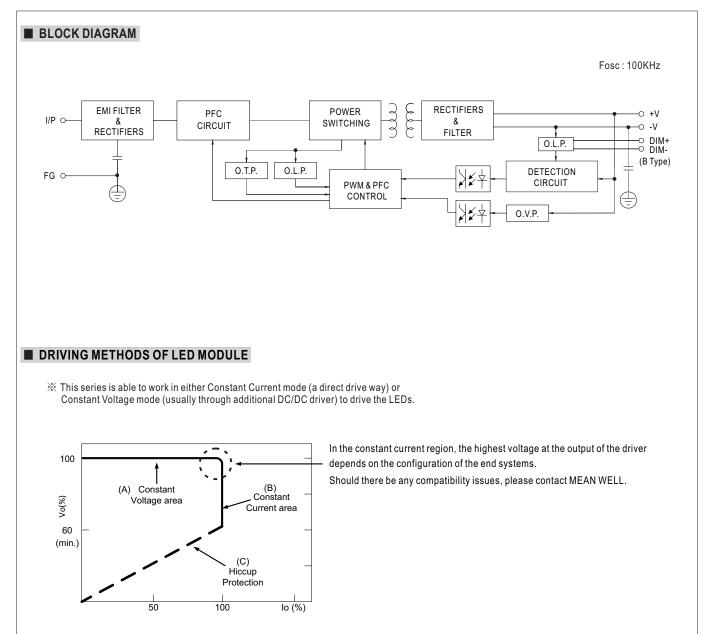
Туре	IP Level	Function	Note
Blank	IP67	Io and Vo fixed	In Stock
A	IP65	Io and Vo adjustable through built-in potentiometer	In Stock
В	IP67	3 in 1 dimming function (1~10VDC, 10V PWM signal and resistance)	In Stock
AB	IP65	Io and Vo adjustable through built-in potentiometer & 3 in 1 dimming function (1~10Vdc, 10V PWM signal and resistance)	In Stock
D	IP67	Timer dimming function, contact MEAN WELL for details(safety pending).	By request



SPECIFICATION

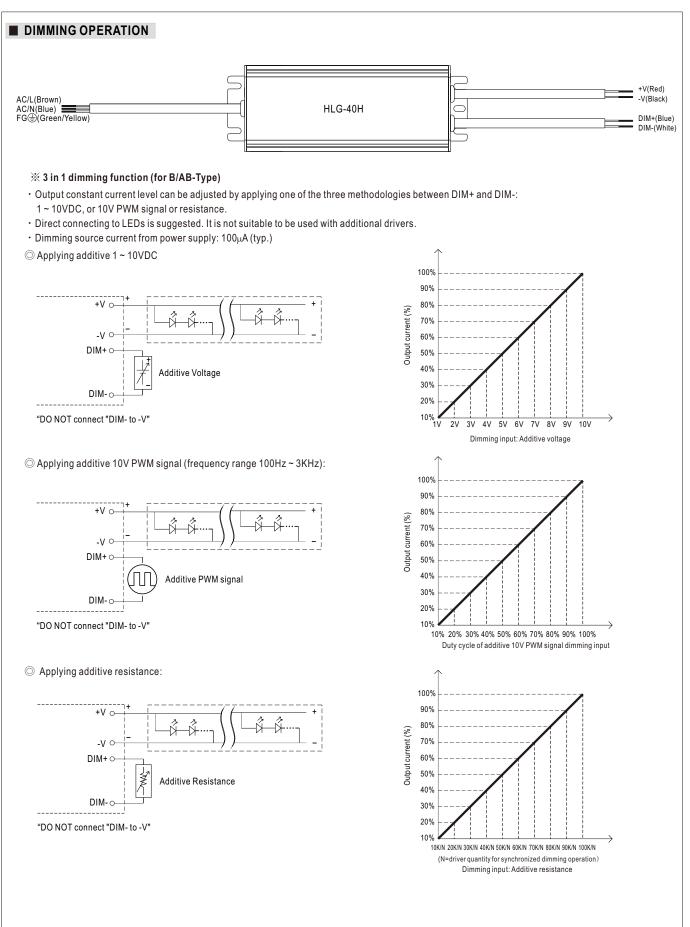
MODEL		HLG-40H-12	HLG-40H-15	HLG-40H-20	HLG-40H-24	HLG-40H-30	HLG-40H-36	HLG-40H-42	HLG-40H-48	HLG-40H-54		
	DC VOLTAGE	12V	15V	20V	24V	30V	36V	42V	48V	54V		
OUTPUT	CONSTANT CURRENT REGION Note.4	7.2 ~12V	9~15V	12 ~ 20V	14.4 ~ 24V	18~30V	21.6~36V	25.2 ~ 42V	28.8~48V	32.4 ~ 54V		
	RATED CURRENT	3.33A	2.67A	2A	1.67A	1.34A	1.12A	0.96A	0.84A	0.75A		
	RATED POWER	39.96W	40.05W	40W	40.08W	40.2W	40.32W	40.32W	40.32W	40.5W		
	RIPPLE & NOISE (max.) Note.2		150mVp-p	150mVp-p	200mVp-p	200mVp-p	200mVp-p	200mVp-p	300mVp-p	300mVp-p		
							20011119 9	20011119 9	ocomvp p	ooonivp p		
	VOLTAGE ADJ. RANGE	Adjustable for A/AB-Type only (via built-in potentiometer) 10.8 ~ 13.5V 13.5 ~ 17V 17 ~ 22V 22 ~ 27V 27 ~ 33V 33 ~ 40V 40 ~ 46V 44 ~ 53V 49 ~ 58V										
			I	17~22V	22~27V	27 ~ 33V	33 ~ 40V	40 ~ 46V	44 ~ 53V	49 ~ 58V		
	CURRENT ADJ. RANGE	-	r A/AB-Type o		1	T.						
		2~3.33A	1.6~2.67A	1.2 ~ 2A	1~1.67A	0.8 ~ 1.34A	-	0.58 ~ 0.96A		0.45 ~ 0.75		
	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%	$\pm 0.5\%$		
	LOAD REGULATION	±2.0%	$\pm 1.5\%$	±1.0%	±0.5%	±0.5%	$\pm 0.5\%$	$\pm 0.5\%$	$\pm 0.5\%$	$\pm 0.5\%$		
	SETUP, RISE TIME Note.6	500ms,80ms/115VAC 500ms,80ms/230VAC										
	HOLD UP TIME (Typ.)	16ms / 115VAC, 230VAC										
		90 ~ 305VAC 127 ~ 431VDC										
	VOLTAGE RANGE Note.5											
	FREQUENCY RANGE	47 ~ 63Hz										
	FREQUENCI KANGE											
	POWER FACTOR (Typ.)	PF≧0.98/115VAC, PF≧0.95/230VAC, PF≧0.92/277VAC @ full load										
		(Please refer to "POWER FACTOR (PF) CHARACTERISTIC" section)										
	TOTAL HARMONIC DISTORTION	THD<20% (@ load≧60% / 115VAC,230VAC; @ load≧75% / 277VAC)										
INPUT			r to "TOTAL HA		TORTION (TH	1						
	EFFICIENCY (Typ.)	86.5%	86.5%	88%	88%	88.5%	88.5%	88.5%	89.5%	89.5%		
	AC CURRENT (Typ.)	0.43A / 115VA	AC 0.24A	/ 230VAC	0.23A / 277V	AC						
	INRUSH CURRENT(Typ.)	COLD START	50A(twidth=210	μs measured a	t 50% Ipeak) at	230VAC; Per N	EMA 410					
	MAX. No. of PSUs on 16A	COLD START 50A(twidth=210µ/s measured at 50% Ipeak) at 230VAC; Per NEMA 410										
	CIRCUIT BREAKER	12 units (circuit breaker of type B) / 20 units (circuit breaker of type C) at 230VAC										
	LEAKAGE CURRENT	<0.75mA/277VAC										
PROTECTION	OVER CURRENT	95 ~ 108%										
		Constant current limiting, recovers automatically after fault condition is removed										
	SHORT CIRCUIT		recovers auto	-			1	1	1			
	OVER VOLTAGE	15~21V	18 ~ 24V	23 ~ 30V	28 ~ 35V	35 ~ 43V	41~49V	48 ~ 58V	54 ~ 65V	59~68V		
		Shut down o/p	o voltage, re-po	ower on to reco	over							
	OVER TEMPERATURE	Shut down o/p voltage, re-power on to recover										
	WORKING TEMP.	Tcase= -40 ~	+80°C (Pleas	e refer to "OU"	TPUT LOAD v	s TEMPERATI	JRE" section)					
ENVIRONMENT	MAX. CASE TEMP.											
	WORKING HUMIDITY	20 ~ 95% RH non-condensing										
	STORAGE TEMP., HUMIDITY											
	TEMP. COEFFICIENT	±0.03%/°C (
	VIBRATION		,	la maniari fan '	70min aashal							
SAFETY & EMC	VIBRATION					ong X, Y, Z axe						
	SAFETY STANDARDS Note.8	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, GB19510.1,GB19510.14,EAC TP TC 004,KC61347-1,KC61347-2-13(except for AB-type), IP65 or IP67 approved;										
		J61347-1,J61347-2-13 (except for B,AB and D-type); design refer to BS EN/EN60335-1 (by request)										
	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC I/P-FG:2KVAC O/P-FG:1.5KVAC										
	ISOLATION RESISTANCE	I/P-O/P.I/P-FG. O/P-FG:100M Ohms / 500VDC / 25°C/ 70% RH										
							60%) ; BS EN/E	N61000-3-3 C	B17743 and CI	B17625 1		
	EMC EMISSION Note.8	EAC TP TC 02	20							211020.1,		
	EMC IMMUNITY					EN61547, BS I	,					
						Line 2KV), EA		(a = ⁹ C)				
OTHERS	MTBF	1131.9K hrs n		ia SR-332 (Bel	Icore) ; 336.5k	hrs min. MI	L-HDBK-217F	(25°C)				
	DIMENSION	171*61.5*36.8	. ,									
	PACKING	0.73Kg; 20pcs	s/15.6Kg/0.9Cl	JFT								
NOTE	1. All parameters NOT specially	y mentioned ar	re measured a	t 230VAC inp	ut, rated curre	nt and 25°C o	f ambient temp	erature.				
	2. Ripple & noise are measured	d at 20MHz of	bandwidth by	using a 12" tv	visted pair-wire	e terminated wi	ith a 0.1uf & 47	⁷ uf parallel cap	acitor.			
	3. Tolerance : includes set up t		•	•	n.							
	4. Please refer to "DRIVING METHODS OF LED MODULE".											
	5. De-rating may be needed ur		-									
	6. Length of set up time is mea			•								
	7. The driver is considered as a	•	•						be affected by	/ the		
	complete installation, the fina							•	-			
	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 (tc) 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(6500fi 12. For any application note and IP water proof function installation caution, please refer our user manual before using.											
		•						•	0			
	12. For any application note an	d IP water pro	of function inst					•	0	-		
		d IP water pro Upload/PDF/LI	of function insi ED_EN.pdf	tallation cautio	n, please refe	r our user man	ual before usir	ng.	U	-		





Typical output current normalized by rated current (%)

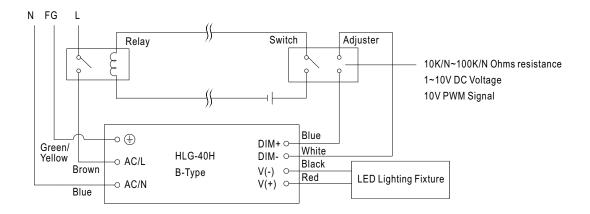






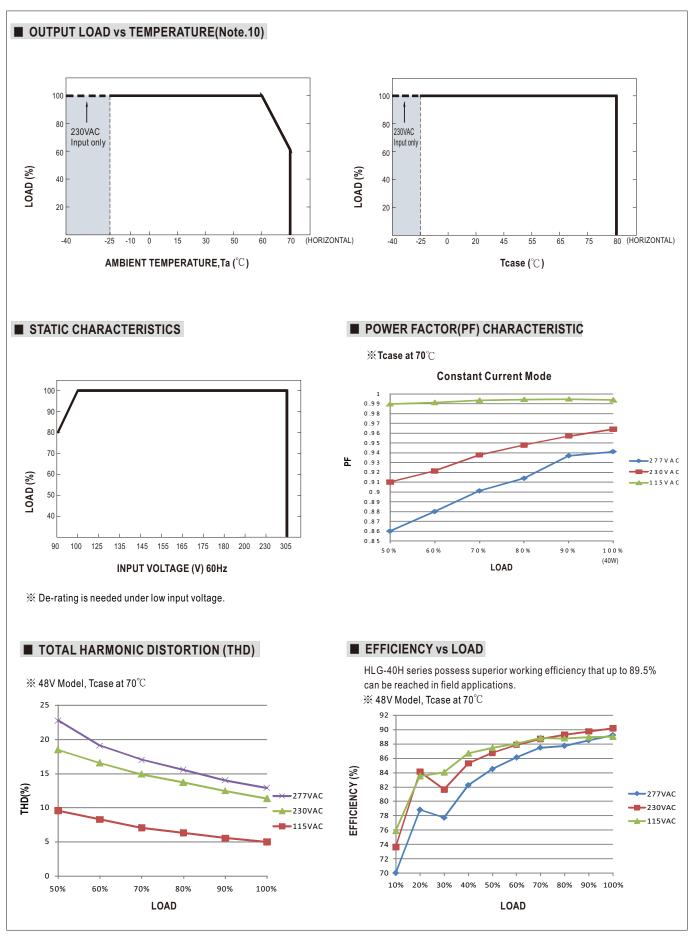
HLG-40H series

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.

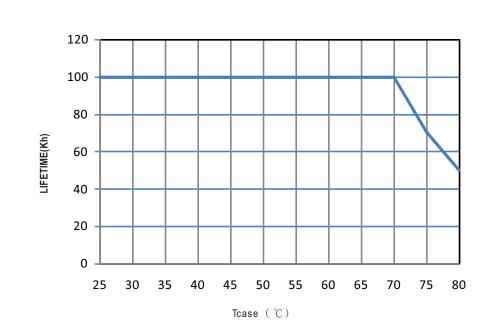




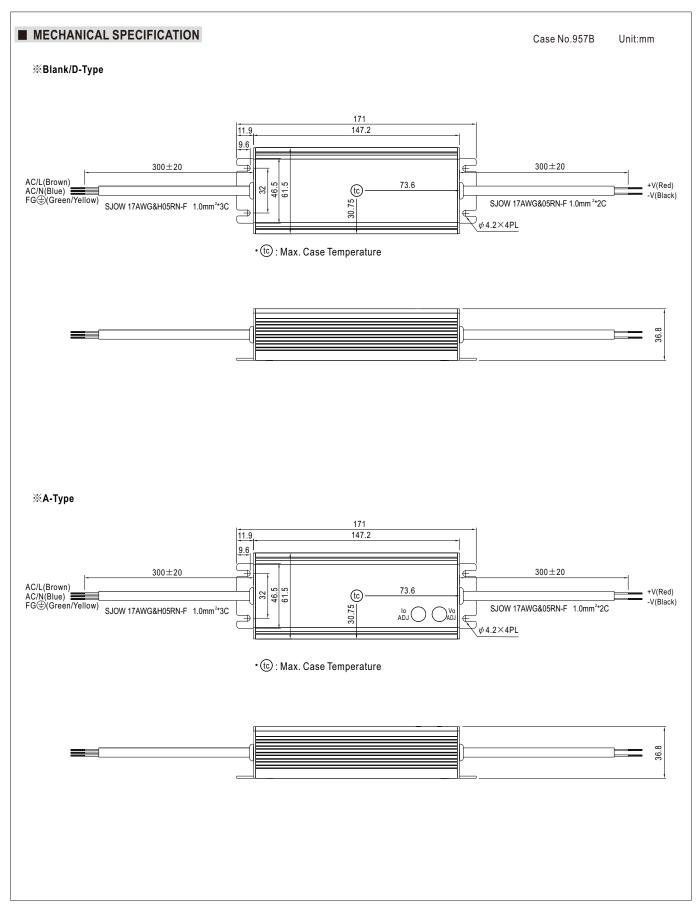


HLG-40H series

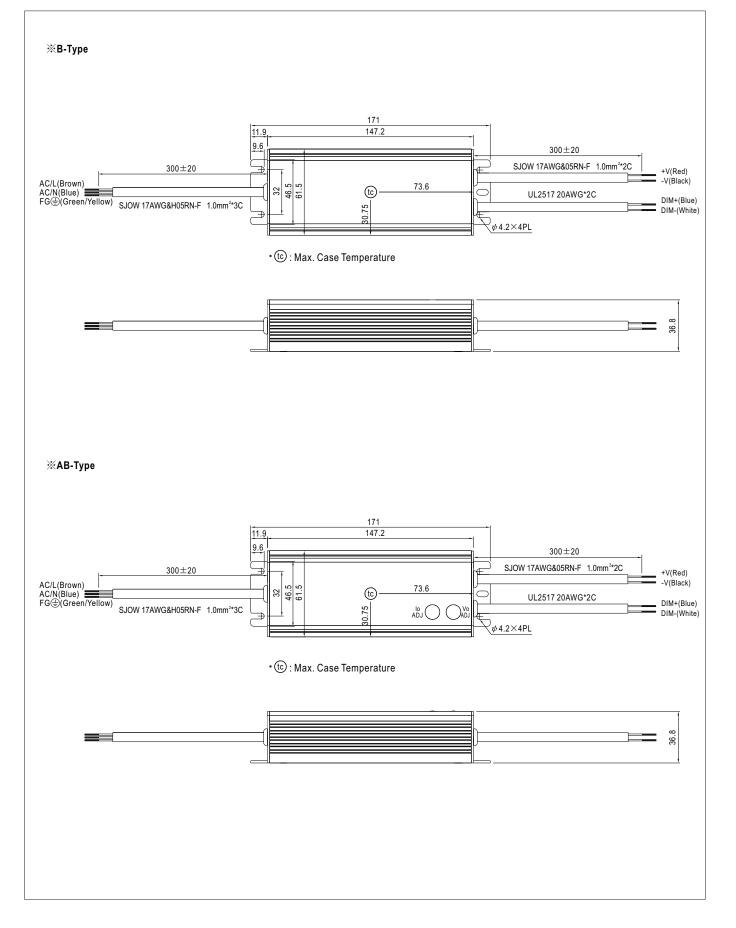
LIFE TIME









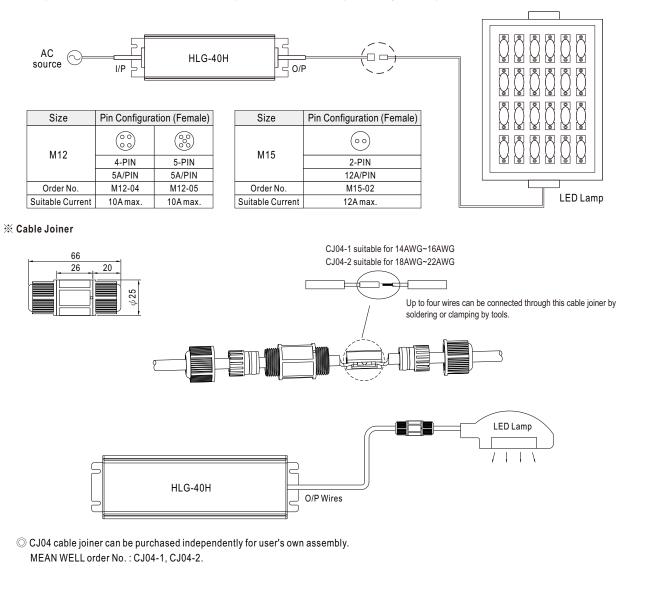




WATERPROOF CONNECTION

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

Waterproof connector can be assembled on the output cable of HLG-40H to operate in dry/wet/damp or outdoor environment.



INSTALLATION MANUAL

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