









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.

GTIN CODE

MW Search: <u>https://www.meanwell.com/serviceGTIN.aspx</u>

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

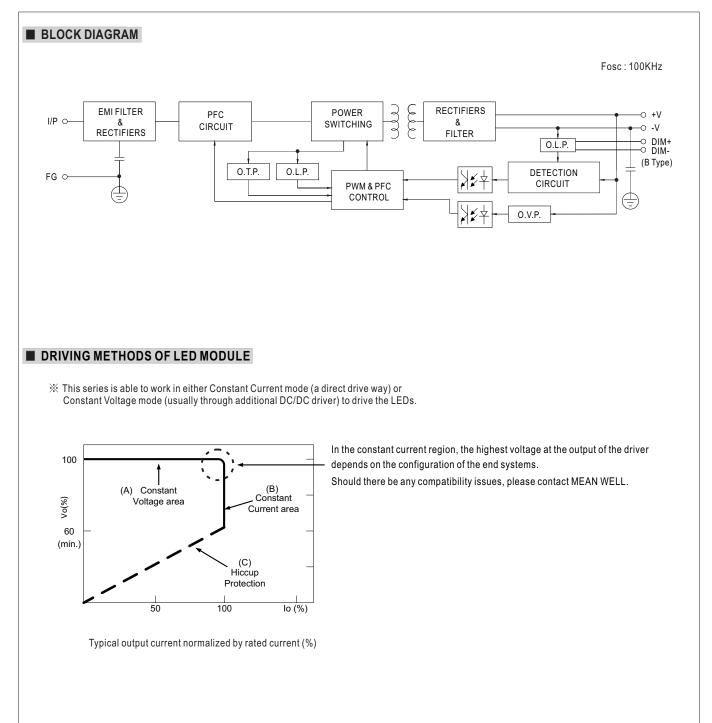
Туре	IP Level	Function	Note
Blank	IP67	lo and Vo fixed	In Stock
A	IP65	Io and Vo adjustable through built-in potentiometer	In Stock
В	IP67	3 in 1 dimming function (1~10VDC, 10V PWM signal and resistance)	In Stock
AB	IP65	Io and Vo adjustable through built-in potentiometer & 3 in 1 dimming function (1~10Vdc,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



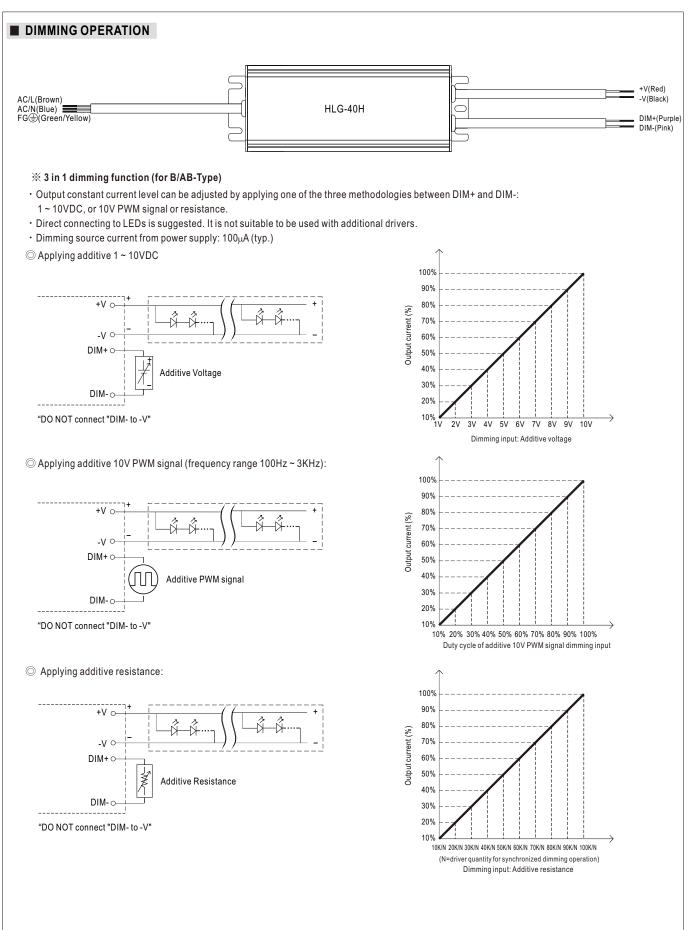
SPECIFICATION

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		
	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		
	NIFFEL & NOISE (IIIAX.) NOISE.2						200111vp-p	2001110p-p	300111vp-p	Joonin h-h		
	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										
OUTPUT			I	17~22V	22~27V	27 ~ 33V	33 ~ 40V	40 ~ 46V	44 ~ 53V	49~58V		
	CURRENT ADJ. RANGE			nly (via built-ir	· · · · · · · · · · · · · · · · · · ·	, ,		1	1	1		
		2~3.33A	1.6~2.67A	1.2 ~ 2A	1~1.67A	0.8~1.34A	0.67 ~ 1.12A	0.58 ~ 0.96A	0.5~0.84A	0.45 ~ 0.75A		
	VOLTAGE TOLERANCE Note.3	±2.5%	$\pm 2.0\%$	±1.0%	±1.0%	±1.0%	$\pm 1.0\%$	±1.0%	$\pm 1.0\%$	±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%		
	SETUP, RISE TIME Note.6	500ms,80ms	/115VAC 50	0ms,80ms/230	OVAC			1				
	HOLD UP TIME (Typ.) 16ms / 115VAC, 230VAC											
	90 ~ 305VAC 127 ~ 431VDC											
	VOLTAGE RANGE Note.5											
	FREQUENCY RANGE	47~63Hz										
	POWER FACTOR (Typ.)	PF≧0.98/115	VAC, PF≧0.9	5/230VAC, PF	≧0.92/277VA	C @ full load						
		(Please refer to "POWER FACTOR (PF) CHARACTERISTIC" section)										
		THD<20% (@ load≥60% / 115VAC,230VAC; @ load≥75% / 277VAC)										
INPUT	TOTAL HARMONIC DISTORTION	(Please refe	to "TOTAL HA	ARMONIC DIS	TORTION (TH	ID)" section)						
	EFFICIENCY (Typ.)	86.5%	86.5%	88%	88%	88.5%	88.5%	88.5%	89.5%	89.5%		
	AC CURRENT (Typ.)	0.43A / 115VA		/ 230VAC	0.23A / 277V/							
	INRUSH CURRENT(Typ.)						-MA 410					
	MAX. No. of PSUs on 16A	COLD START 50A(twidth=210, //s measured at 50% lpeak) at 230VAC; Per NEMA 410										
	CIRCUIT BREAKER	12 units (circu	uit breaker of ty	/pe B) / 20 unit	s (circuit brea	ker of type C) at	230VAC					
		12 units (circuit breaker of type B) / 20 units (circuit breaker of type C) at 230VAC										
	LEAKAGE CURRENT	<0.75mA/27	7VAC									
	OVER CURRENT	95 ~ 108%										
		Constant curr	ent limiting, re	covers automa	tically after fau	It condition is re	emoved					
PROTECTION	SHORT CIRCUIT	Hiccup mode,	recovers auto	matically after	fault condition	is removed						
		15 ~ 21V	18~24V	23~30V	28 ~ 35V	35 ~ 43V	41~49V	48~58V	54 ~ 65V	59~68V		
	OVER VOLTAGE	Shut down o/	voltage, re-po	ower on to reco	ver			-		1		
	OVER TEMPERATURE			ower on to reco								
		-				s TEMPERATU	IPE" contion)					
ENVIRONMENT	WORKING TEMP.				IFUILOAD	STEWFERATC	TRE Section)					
	MAX. CASE TEMP.	Tcase= +80°(
	WORKING HUMIDITY 20 ~ 95% RH non-condensing											
	STORAGE TEMP., HUMIDITY	-40 ~ +80°C,	10 ~ 95% RH									
	TEMP. COEFFICIENT	±0.03%/°C (0~60°C)										
	VIBRATION	10 ~ 500Hz, 5	G 12min./1cyc	le, period for	72min. each al	ong X, Y, Z axe	S					
SAFETY & EMC	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,										
	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC I/P-FG:2KVAC O/P-FG:1.5KVAC										
	ISOLATION RESISTANCE			0.2KVAC 0/								
	ISOLATION RESISTANCE	,	,						D/T 17740 00	17605 4		
	EMC EMISSION Note.8	EAC TP TC 02		15, 85 EN/EN	51000-3-2 Cla	ss C (@ load≧	00%); BS EN/E	=1N01000-3-3,G	D/11//43,GE	01/025.1,		
	EMC IMMUNITY	Compliance to BS EN/EN61000-4-2.3.4.5.6.8.11: BS EN/EN61547_BS EN/EN55024										
	MTBF	3395.8K hrs r	nin. Telcord	ia SR-332 (Bel	lcore) ; 345.8k	Chrs min. MI	L-HDBK-217F	(25°C)				
OTHERS	DIMENSION	171*61.5*36.	8mm (L*W*H)									
	PACKING		s/15.6Kg/0.9Cl	JFT								
	1. All parameters NOT specially		-		it, rated currer	nt and 25°C of	ambient temp	erature.				
NOTE	 Ripple & noise are measured Tolerance : includes set up to Please refer to "DRIVING M 	d at 20MHz of olerance, line r ETHODS OF l	bandwidth by regulation and LED MODULE	using a 12" tw load regulation	visted pair-wire	e terminated wit	th a 0.1uf & 47	7uf parallel cap	oacitor.			
	 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. 											
	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. (as available on https://www.meanwell.com//Upload/PDF/EMI statement en.pdf)											
	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.											
	 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) 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 											
		•	nformation, ple									







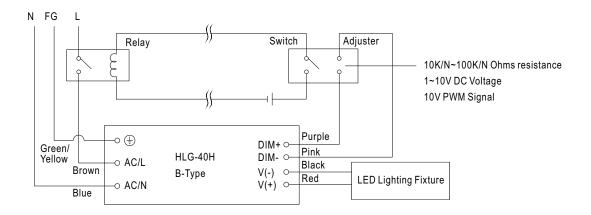




40W Constant Voltage + Constant Current LED Driver

HLG-40H series

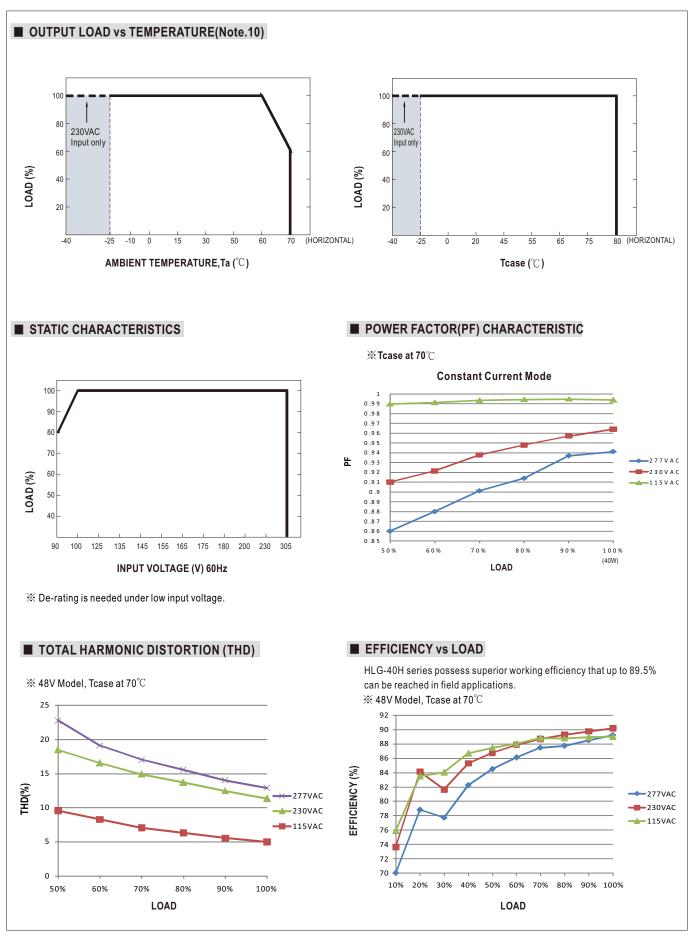
Note: In the case of turning the lighting fixture down to 0% brightness, please refer to the configuration as follow, or please contact MEAN WELL for other options.



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

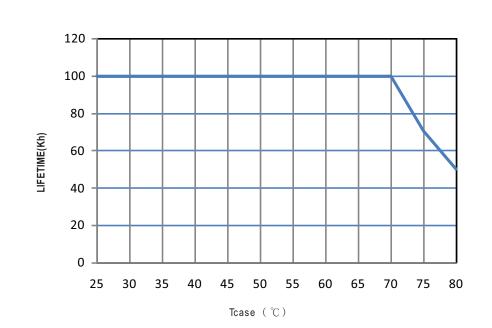


40W Constant Voltage + Constant Current LED Driver

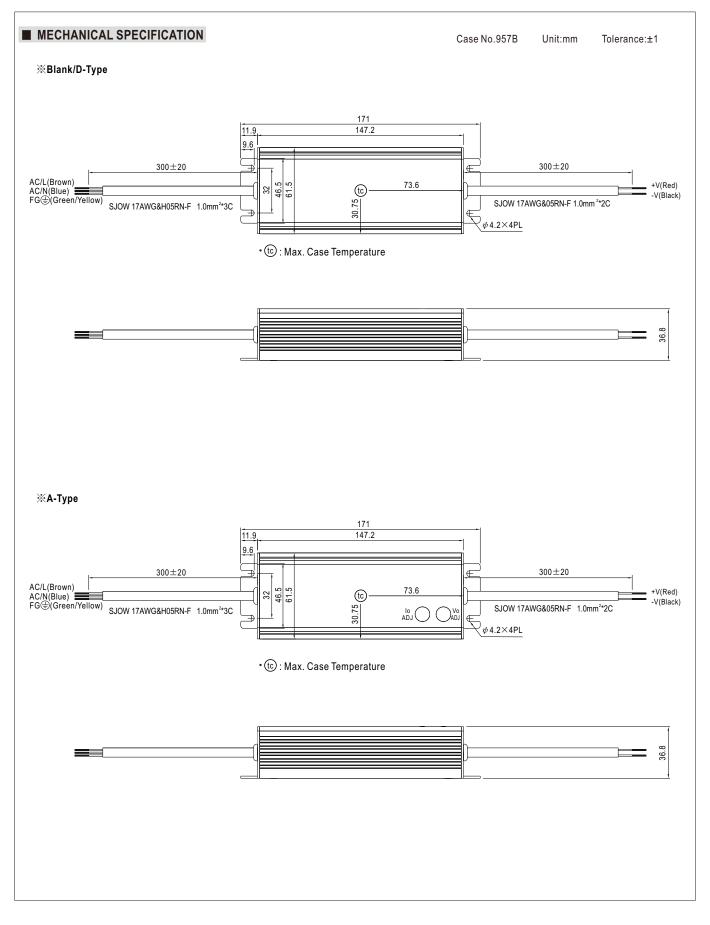




LIFE TIME

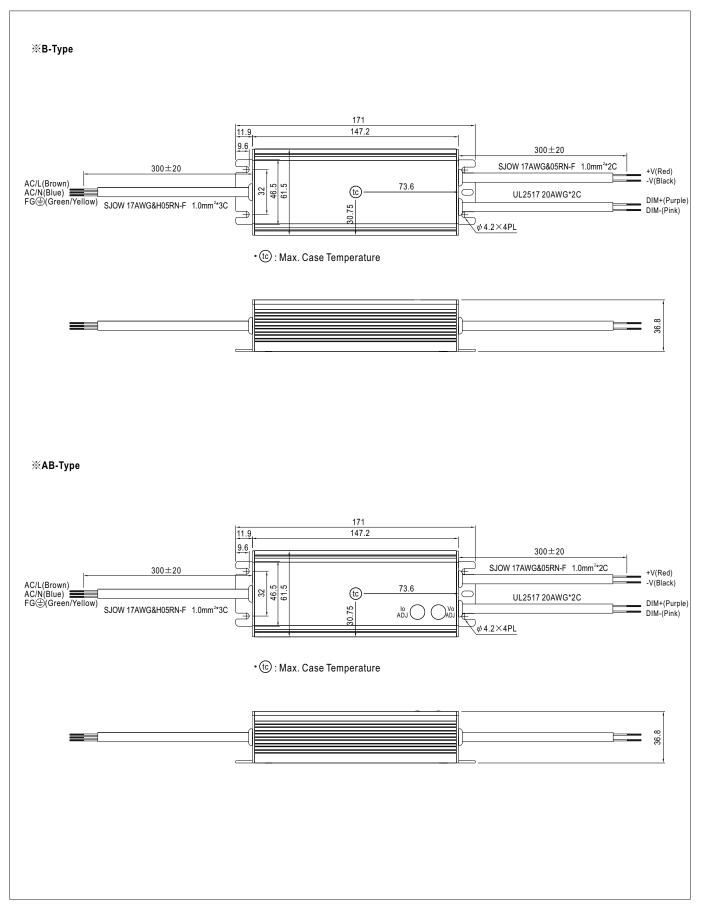








40W Constant Voltage + Constant Current LED Driver

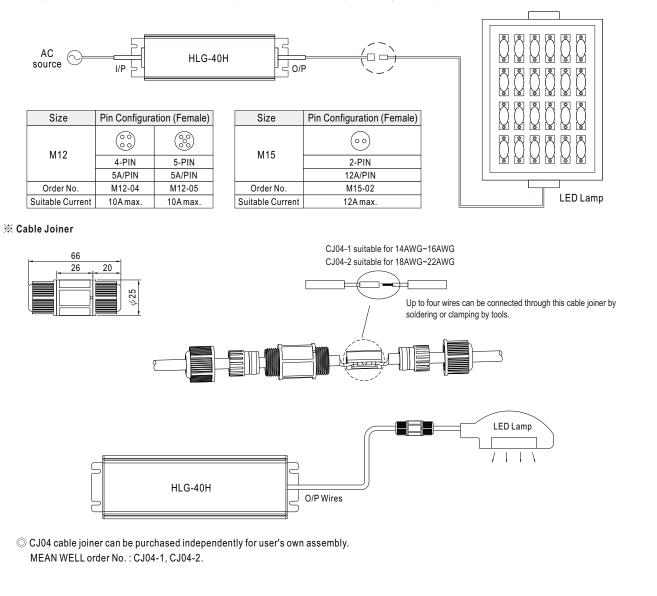




WATERPROOF CONNECTION

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

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

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

MEAN WELL:

 HLG-40H-12
 HLG-40H-12A
 HLG-40H-12B
 HLG-40H-12D
 HLG-40H-15
 HLG-40H-15A
 HLG-40H-15B
 HLG-40H-15B

 15D
 HLG-40H-20
 HLG-40H-20A
 HLG-40H-20B
 HLG-40H-20D
 HLG-40H-24
 HLG-40H-24A
 HLG-40H-24B
 HLG-40H-24B
 HLG-40H-24B
 HLG-40H-24B
 HLG-40H-36A
 HLG-40H-36A
 HLG-40H-36B

 40H-24D
 HLG-40H-30
 HLG-40H-30A
 HLG-40H-30B
 HLG-40H-30D
 HLG-40H-36
 HLG-40H-36A
 HLG-40H-36B

 HLG-40H-36D
 HLG-40H-42
 HLG-40H-42A
 HLG-40H-42B
 HLG-40H-42D
 HLG-40H-48
 HLG-40H-48A
 HLG-40H-48A

 48B
 HLG-40H-48D
 HLG-40H-54A
 HLG-40H-54B
 HLG-40H-54D
 HLG-40H-12AB
 HLG-40H-24AB

 HLG-40H-15AB
 HLG-40H-20AB
 HLG-40H-48AB
 HLG-40H-54AB
 HLG-40H-54AB
 HLG-40H-54AB

 HLG-40H-15AB
 HLG-40H-20AB
 HLG-40H-48AB
 HLG-40H-30AB
 HLG-40H-54AB
 HLG-40H-42AB