









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

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

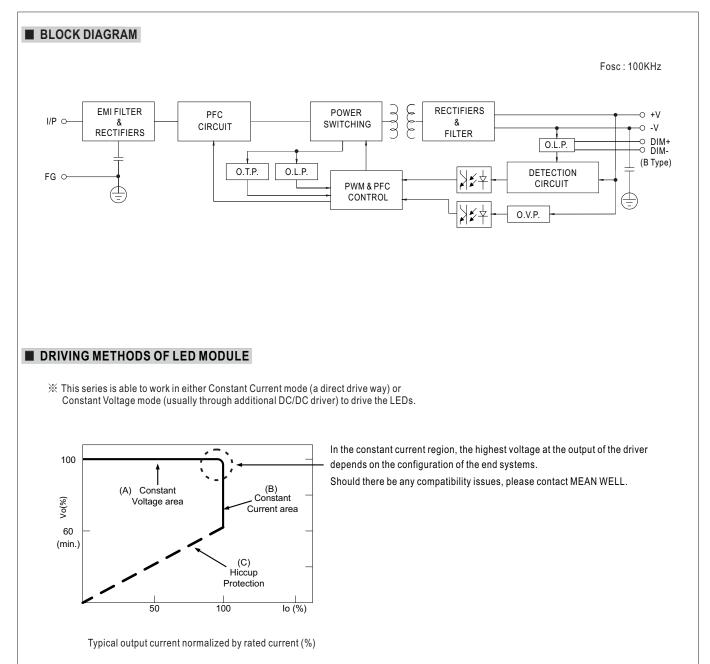


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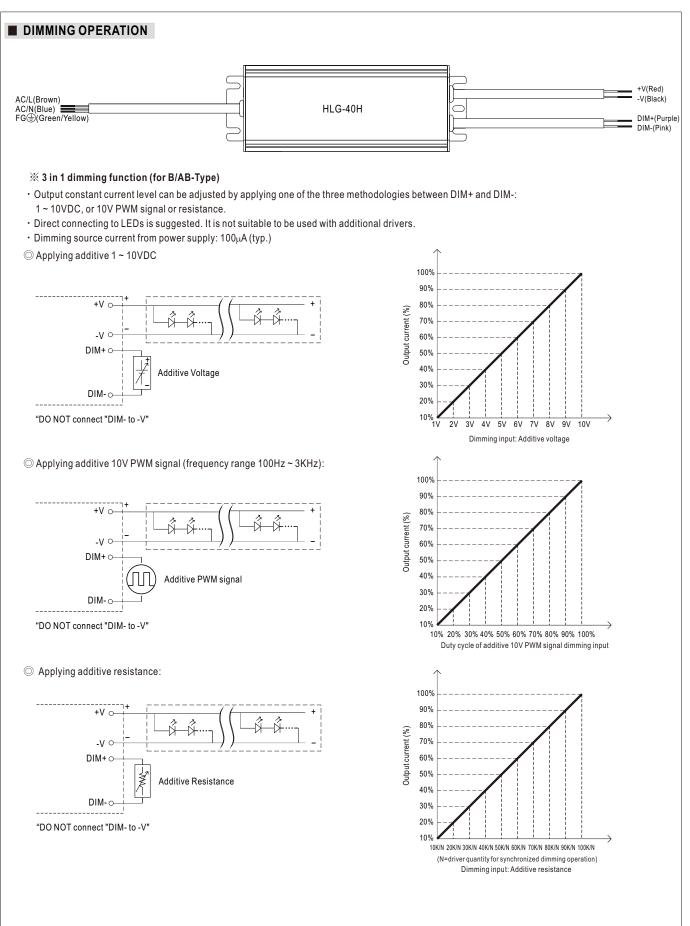
SPECIFICATION

MODEL	ATION	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			
MODEL	DC VOLTAGE	12V	15V	20V	24V	30V	36V	42V	48V	54V			
	CONSTANT CURRENT REGION Note.4		9~15V	12 ~ 20V	14.4 ~ 24V	18 ~ 30V	21.6 ~ 36V	42 V 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			
OUTPUT	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			
	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											
	CURRENT ADJ. RANGE	Adjustable for	r A/AB-Type o	nly (via built-ir	n potentiomet	er)							
	CORRENT ADJ. RANGE	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 ~ 0.75			
	VOLTAGE TOLERANCE Note.3	±2.5%	±2.0%	±1.0%	±1.0%	±1.0%	±1.0%	$\pm 1.0\%$	±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%	±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	0VAC			1		1			
	HOLD UP TIME (Typ.)	16ms / 115VAC, 230VAC											
	90 ~ 305VAC 127 ~ 431VDC												
	VOLTAGE RANGE Note.5												
	FREQUENCY RANGE	47 ~ 63Hz											
	FREQUENCI KANGE				>0 00/0771//								
	POWER FACTOR (Typ.)			5/230VAC, PF		0							
				CTOR (PF) CH		,							
	TOTAL HARMONIC DISTORTION	THD<20% (@ load \geq 60% / 115VAC,230VAC; @ load \geq 75% / 277VAC)											
INPUT		· ·		ARMONIC DIS		· · · · ·							
	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	us measured a	t 50% Ipeak) at	230VAC; Per NE	EMA 410						
	MAX. No. of PSUs on 16A			D) (00 14									
	CIRCUIT BREAKER	12 units (circu	uit breaker of ty	/pe B) / 20 unit	s (circuit brea	ker of type C) at	230VAC						
	LEAKAGE CURRENT	<0.75mA/27	7VAC										
		95~108%											
PROTECTION	OVER CURRENT		ont limiting ro	annara automa	tically ofter fa	ult condition in r	amound						
		Constant current limiting, recovers automatically after fault condition is removed Hiccup mode, recovers automatically after fault condition is removed											
	SHORT CIRCUIT			-			44 401/	40 501/	54 0514	50 001/			
	OVER VOLTAGE	15~21V	18~24V	23~30V	28 ~ 35V	35 ~ 43V	41~49V	48 ~ 58V	54 ~ 65V	59~68V			
				ower on to reco									
	OVER TEMPERATURE			ower on to reco									
	WORKING TEMP.	Tcase= -40 ~	+80°C (Pleas	e refer to "OU"	TPUT LOAD v	s TEMPERATU	IRE" section)						
	MAX. CASE TEMP.	Tcase=+80°C	2										
	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		,	le, period for	72min, each al	ong X, Y, Z axe	s						
-		10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes 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,											
	SAFETY STANDARDS Note.8												
		J61347-1,J61347-2-13 ; 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			00M Ohms / 50									
		Compliance to				lss C (@ load≧	60%) · BS EN/F	N61000-3-3 G	B/T 17743 GB	17625 1			
	EMC EMISSION Note.8	EAC TP TC 02											
				000-4-2,3,4,5,	6,8,11; BS EN	/EN61547, BS E	N/EN55024,						
	EMC IMMUNITY	light industry level (surge immunity Line-Earth 4KV, Line-Line 2KV), EAC TP TC 020											
OTHERS	MTBF	3395.8K hrs n	nin. Telcord	ia SR-332 (Bel	lcore) ; 345.8k	Khrs min. MI	L-HDBK-217F	(25°C)					
	DIMENSION	171*61.5*36.8	8mm (L*W*H)										
	PACKING	0.73Kg; 20pcs	s/15.6Kg/0.9Cl	UFT									
		÷ .	-		ut. rated curre	nt and 25°C of	ambient temp	erature.					
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. 												
	3. Tolerance : includes set up tolerance, line regulation and load regulation.												
	4. Please refer to "DRIVING METHODS OF LED MODULE".												
	5. De-rating may be needed under low input voltages. Please refer to "STATIC CHARACTERISTIC" sections for details.												
	6. 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.											
	complete installation, the fina		(as available on https://www.meanwell.com//Upload/PDF/EMI_statement_en.pdf)										
	complete installation, the fina (as available on https://www.		•	ing finture - "	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								
	complete installation, the fina (as available on https://www. 8. To fulfill requirements of the		•	ing fixtures, th		can only be de		mon minour p	ernanenuy				
	complete installation, the fina (as available on https://www. 8. To fulfill requirements of the connected to the mains.	latest ErP regi	ulation for light				_			or less			
	complete installation, the fina (as available on https://www.8. To fulfill requirements of the connected to the mains.9. This series meets the typical	latest ErP regu life expectancy	ulation for light / of >62,000 h	ours of operati	ion when Tcas	se, particularly (_			or less.			
	 complete installation, the fina (as available on https://www.l 8. To fulfill requirements of the connected to the mains. 9. This series meets the typical 10. Please refer to the warranty 	latest ErP regulife expectancy y statement on	ulation for light / of >62,000 h MEAN WELL	ours of operati 's website at h	ion when Tcas http://www.mea	se, particularly (anwell.com.	tc) point (or TN	/IP, per DLC),	is about 75℃				
	 complete installation, the fina (as available on https://www.l 8. To fulfill requirements of the connected to the mains. 9. This series meets the typical 10. Please refer to the warranty 11. The ambient temperature do 	latest ErP regulife expectancy y statement on lerating of 3.5°C	ulation for light / of >62,000 h MEAN WELL 2/1000m with	ours of operati 's website at h fanless model	ion when Tcas http://www.mea s and of 5°C/*	se, particularly (anwell.com. 1000m with fan	tc) point (or TN models for op	/IP, per DLC), erating altitude	is about 75℃				
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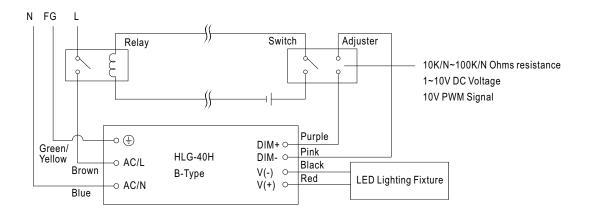




40W Constant Voltage + Constant Current LED Driver

HLG-40H series

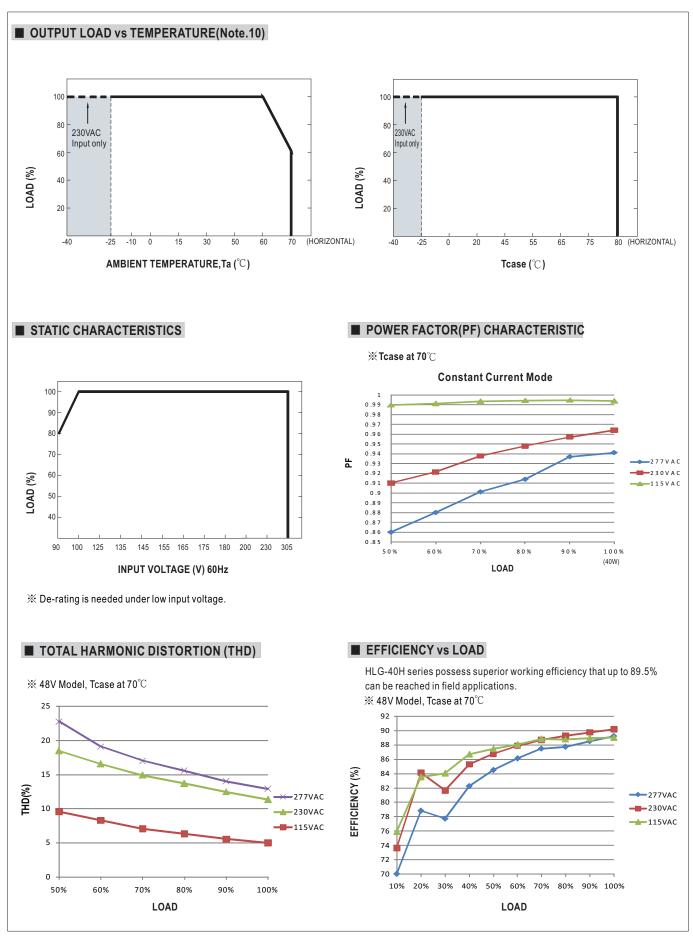
Note: In the case of turning the lighting fixture down to 0% brightness, please refer to the configuration as follow, or please contact MEAN WELL for other options.



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

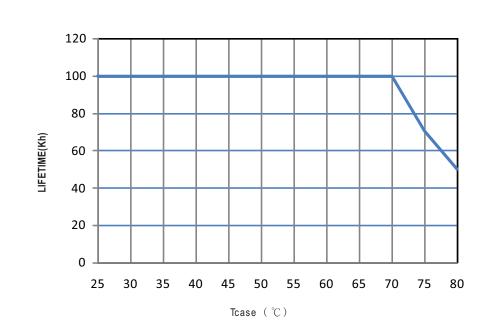


40W Constant Voltage + Constant Current LED Driver

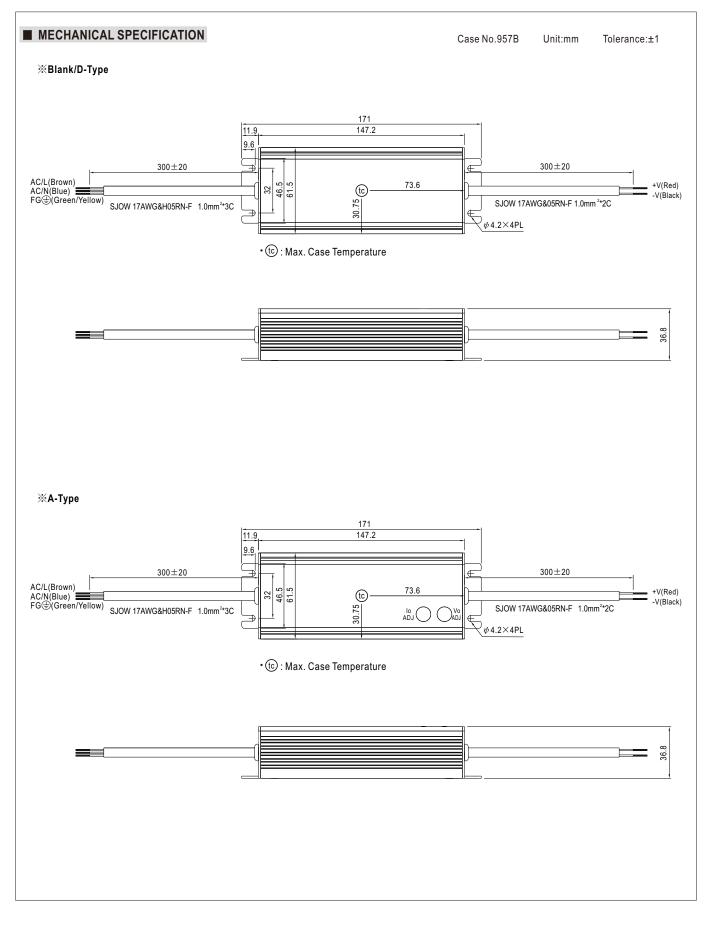




LIFE TIME

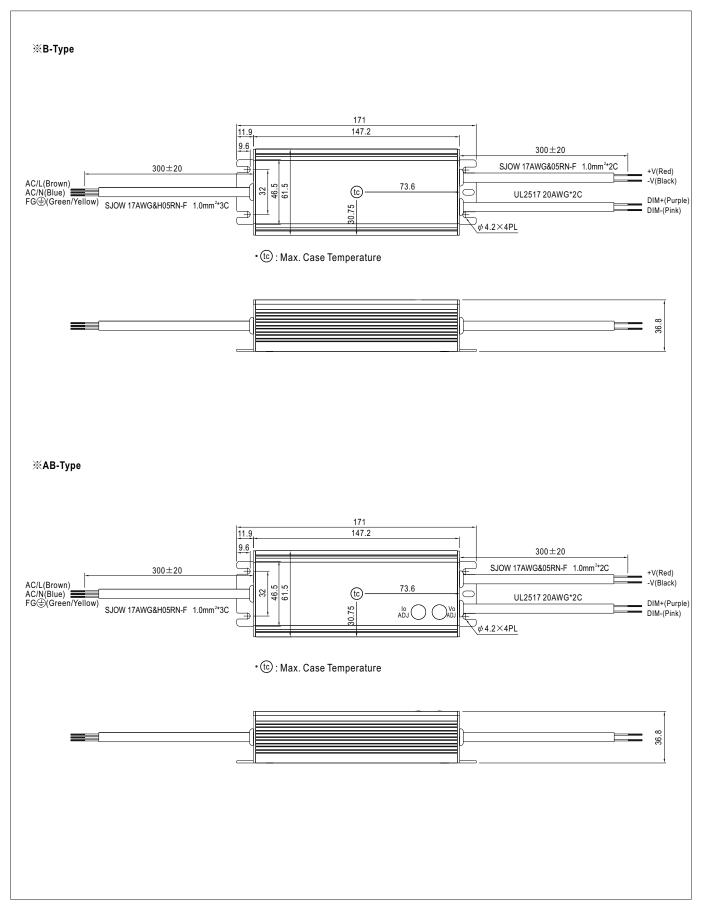








40W Constant Voltage + Constant Current LED Driver

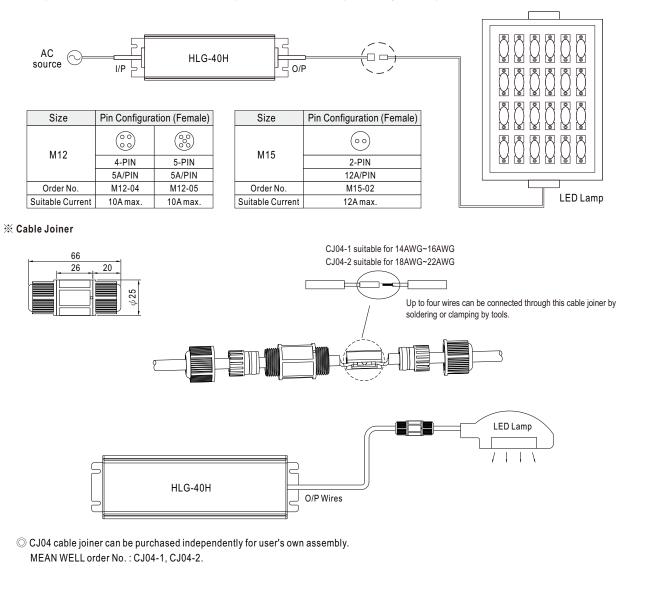




WATERPROOF CONNECTION

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

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