







### 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  $-40^{\circ}$ C ~  $+80^{\circ}$ 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-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

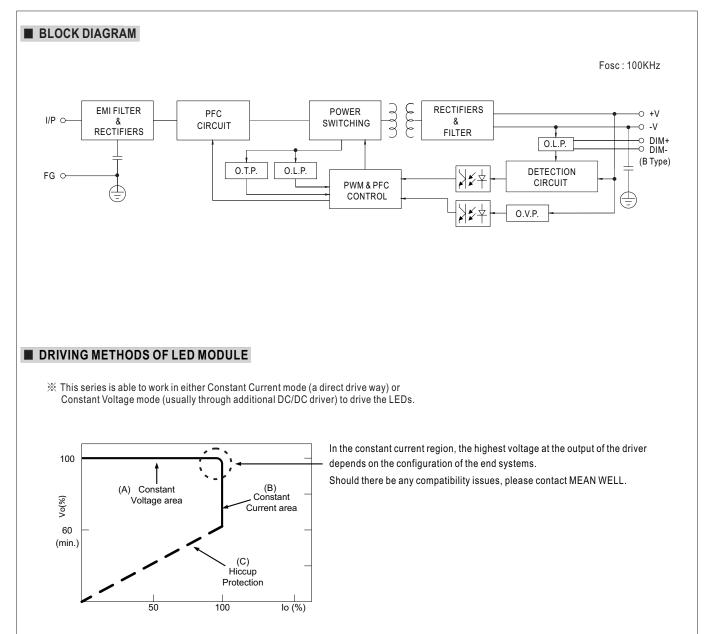
Туре	IP Level	Function	Note
Blank	IP67	Io and Vo fixed	In Stock
A	IP65	Io and Vo adjustable through built-in potentiometer	In Stock
В	IP67	3 in 1 dimming function (1~10VDC, 10V PWM signal and resistance)	In Stock
AB	IP65	Io and Vo adjustable through built-in potentiometer & 3 in 1 dimming function (1~10Vdc,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



#### SPECIFICATION

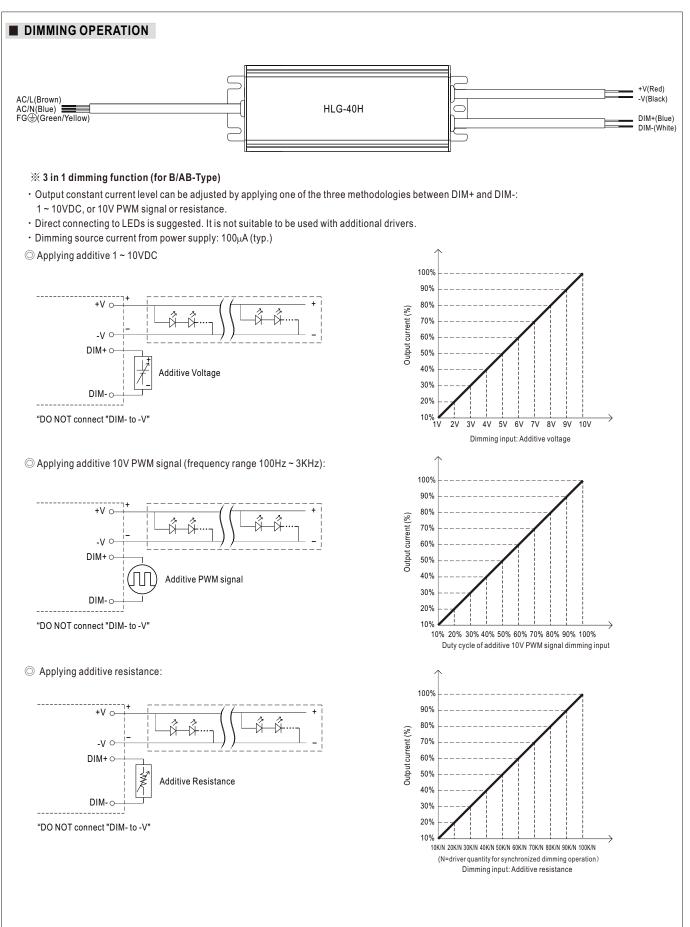
MODEL		HLG-40H-12	HLG-40H-15	HLG-40H-20	HLG-40H-24	HLG-40H-30	HLG-40H-36	HLG-40H-42	HLG-40H-48	HLG-40H-54			
	DC VOLTAGE	12V	15V	20V	24V	30V	36V	42V	48V	54V			
-	CONSTANT CURRENT REGION Note.4		9~15V	12~20V	14.4 ~ 24V	18~30V	21.6 ~ 36V	25.2 ~ 42V	28.8~48V	32.4 ~ 54V			
	RATED CURRENT	3.33A	2.67A	2A	1.67A	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			
					n potentiomete		20011vp-p	200111¥p-p	000mvp-p	000111VP-P			
	VOLTAGE ADJ. RANGE	10.8 ~ 13.5V		17 ~ 22V	22 ~ 27V	27 ~ 33V	33 ~ 40V	40~46V	11 - 521/	40 - 591/			
			I	I	1		33~40V	40~46V	44 ~ 53V	49 ~ 58V			
	CURRENT ADJ. RANGE	-			n potentiomete	T.	0.07 4.404	0.50 0.004	0.5.0044	0.45 0.75			
		2~3.33A		1.2~2A	1~1.67A	0.8~1.34A		0.58 ~ 0.96A		0.45 ~ 0.75			
	VOLTAGE TOLERANCE Note.3		±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%	±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/		0ms,80ms/23	OVAC								
	HOLD UP TIME (Typ.)	16ms / 115VAC, 230VAC											
	VOLTAGE RANGE Note.5	90 ~ 305VAC 127 ~ 431VDC											
	VOLIAGE RANGE Note.5	(Please refer to "STATIC CHARACTERISTIC" section)											
	FREQUENCY RANGE	47 ~ 63Hz											
		PF≧0.98/115	VAC, PF≧0.9	5/230VAC, PF	≥0.92/277VA	C @ full load							
	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)											
ſ		THD<20% (@ load≥60% / 115VAC,230VAC; @ load≥75% / 277VAC)											
INPUT	TOTAL HARMONIC DISTORTION		0		STORTION (TH		- /						
	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/277VA		00.070	001070	001070	00.070			
-	INRUSH CURRENT(Typ.)				at 50% Ipeak) at 2		MA 410						
	MAX. No. of PSUs on 16A	COLD START	JUA(twidth=210		at 50 % ipeak) at a	230VAC, FEI IN							
	CIRCUIT BREAKER	12 units (circı	uit breaker of ty	/pe B) / 20 unit	s (circuit break	ker of type C) a	t 230VAC						
	LEAKAGE CURRENT	<0.75mA / 277VAC											
	OVER CURRENT	95 ~ 108%											
PROTECTION		Constant current limiting, recovers automatically after fault condition is removed											
	SHORT CIRCUIT	HORT CIRCUIT         Hiccup mode, recovers automatically after fault condition is removed											
	OVER VOLTAGE	15~21V         18~24V         23~30V         28~35V         35~43V         41~49V         48~58V         54~65V         59~68V											
		Shut down o/p voltage, re-power on to recover											
	OVER TEMPERATURE	Shut down o/p	o voltage, re-po	ower on to reco	over								
	WORKING TEMP.	Tcase= -40 ~ +80°C (Please refer to "OUTPUT LOAD vs TEMPERATURE" section)											
ENVIRONMENT	MAX. CASE TEMP.	Tcase= +80°C											
	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 neriod for	72min each al	nn a X Y Z ave	2						
	SAFETY STANDARDS Note.8	10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes UL8750(type"HL"), CSA C22.2 No. 250.0-08 , EN/AS/NZS 61347-1,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 EN60335-1(by request)											
SAFETY &	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC I/P-FG:2KVAC O/P-FG:1.5KVAC											
	ISOLATION RESISTANCE	I/P-O/P.3./ 5KVAC I/P-FG.2KVAC 0/P-FG: 1.5KVAC											
EMC	EMC EMISSION Note.8	· · · ·	,				0-3-3 GB17743	3 and GB17625	1 FAC TP TC	020			
	LING EMICOION NOLE.O	Compliance to EN55015, EN61000-3-2 Class C (@ load≧60%); EN61000-3-3,GB17743 and GB17625.1, EAC TP TC 020 Compliance to EN61000-4-2,3,4,5,6,8,11; EN61547, EN55024,											
	EMC IMMUNITY	light industry level (surge immunity Line-Earth 4KV, Line-Line 2KV), EAC TP TC 020											
	MTBF	1131.9K hrs n			llcore) ; 336.5K		L-HDBK-217F	(25°℃)					
OTHERS	DIMENSION	171*61.5*36.8			,,			- /					
	PACKING		s/15.6Kg/0.9Cl	JFT									
	1. All parameters NOT special				ut rated ourror	at and 25°C of	ambiant tomp	oratura					
NOTE	2. Ripple & noise are measure	-							vacitor				
	3. Tolerance : includes set up t		,	÷	•	terminateu wi	in a 0. iui a 47	ui paraller cap					
	4. Please refer to "DRIVING M		-	-									
ſ	5. De-rating may be needed ur				ATIC CHARA	CTERISTIC" s	ections for deta	ails.					
ľ	<ol> <li>be rating may be needed at</li> <li>Length of set up time is mea</li> </ol>		-										
				-	-				be affected by	the			
	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.												
	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.											
	8. To fulfill requirements of the	ialesi Eif ieg											
	8. To fulfill requirements of the	-	/ of >62,000 h	ours of operat	ion when Tcas	e, particularly (	tc) point (or TI	MP, per DLC),	is about 75℃	or less.			
	8. To fulfill requirements of the connected to the mains.	life expectancy					tc) point (or TN	MP, per DLC),	is about 75℃	or less.			
	<ol> <li>8. To fulfill requirements of the connected to the mains.</li> <li>9.This series meets the typical</li> </ol>	life expectancy y statement on	MEAN WELL	's website at h	http://www.mea	inwell.com.	0.						
	<ol> <li>8. To fulfill requirements of the connected to the mains.</li> <li>9. This series meets the typical</li> <li>10. Please refer to the warrant</li> </ol>	life expectancy y statement on lerating of 3.5°0 nd IP water pro	MEAN WELL C/1000m with of function inst	's website at h fanless mode	nttp://www.mea Is and of 5℃/1	nwell.com. 000m with fan	models for op	erating altitude					





Typical output current normalized by rated current (%)

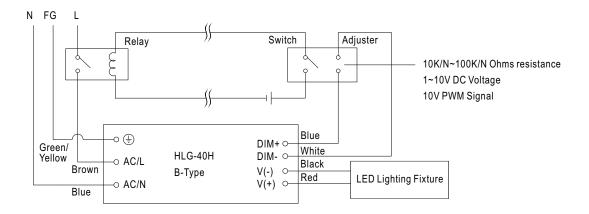






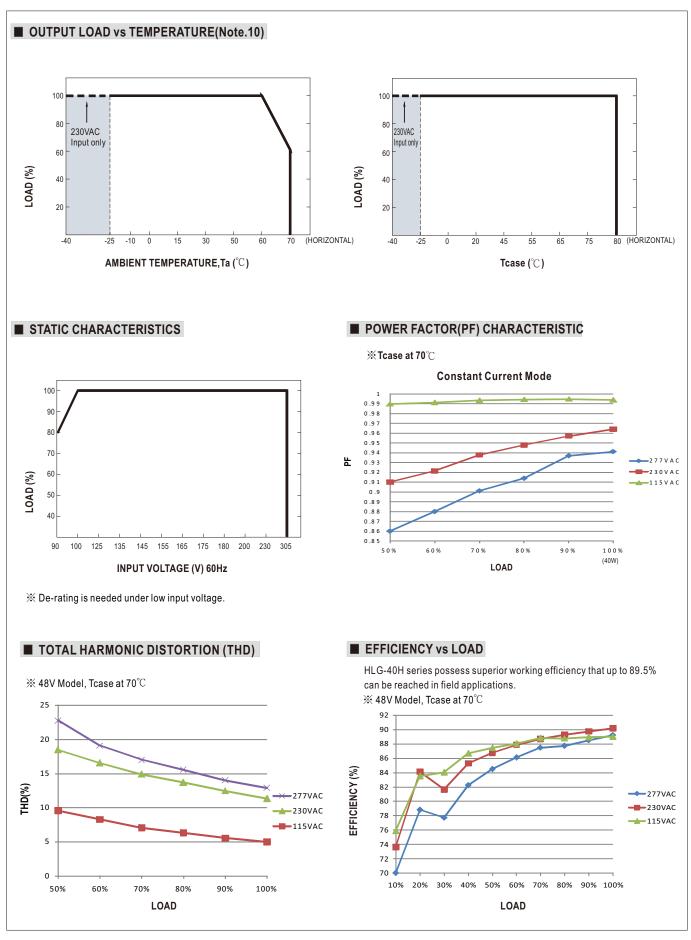
# HLG-40H series

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.

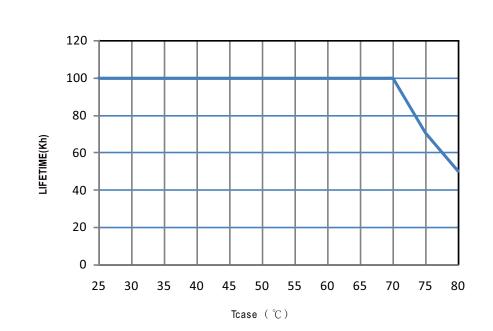




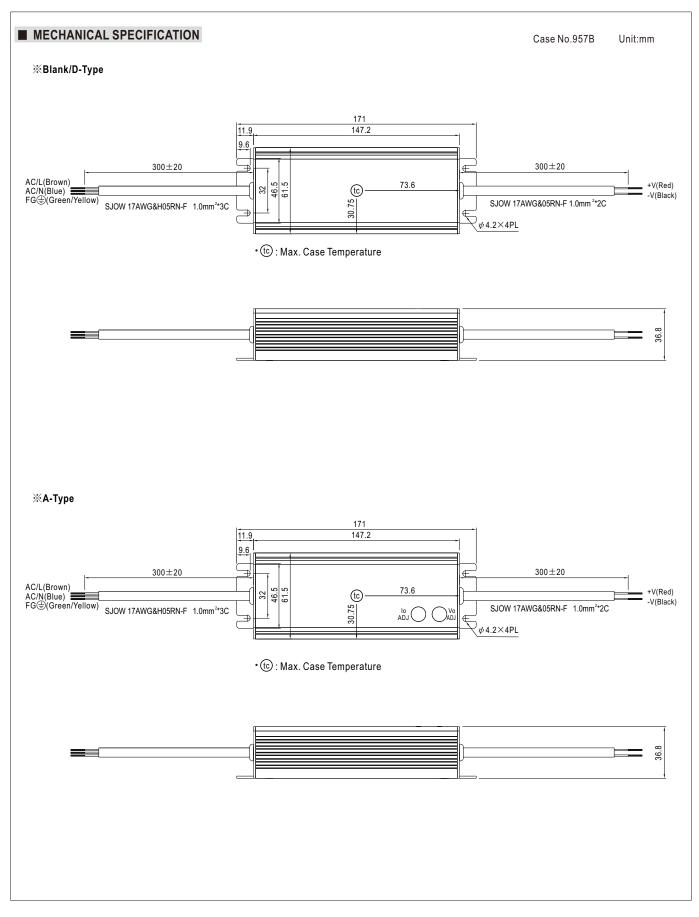


HLG-40H series

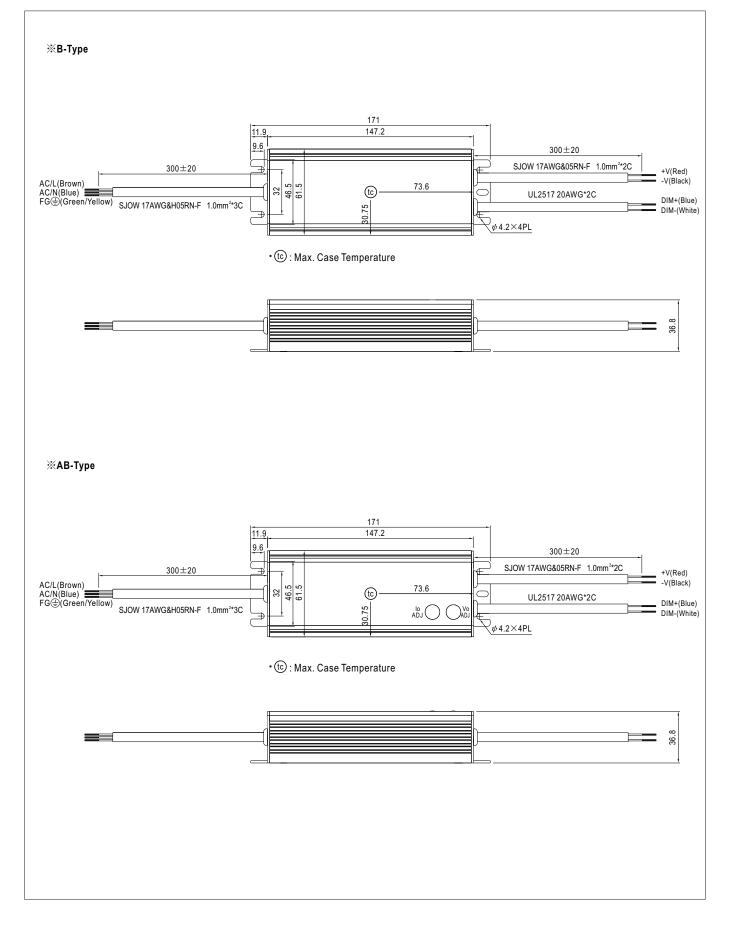
## LIFE TIME









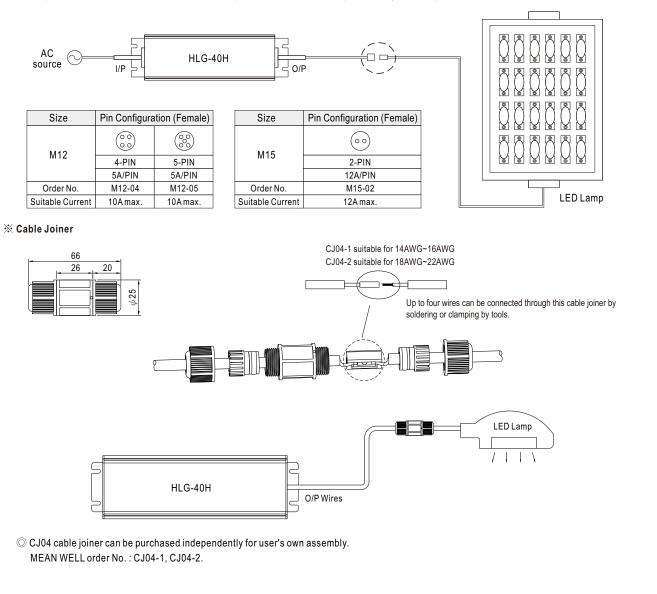




#### WATERPROOF CONNECTION

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

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