







### Features

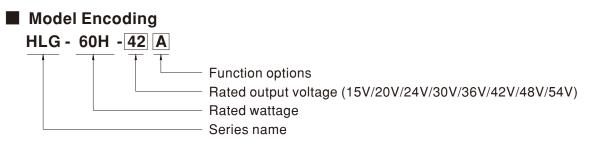
- Constant Voltage + Constant Current mode output
- Metal housing with class  ${\rm I}$  design
- Built-in active PFC function
- · Class 2 power unit
- · IP67 / IP65 rating for indoor or outdoor installations
- Function options: output adjustable via potentiometer; 3 in 1 dimming; Timer dimming
- · Typical 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-60H series is a 60W AC/DC LED driver featuring the dual mode constant voltage and constant current output. HLG-60H operates from 90 ~ 305VAC and offers models with different rated voltage ranging between 15V and 54V. Thanks to the high efficiency up to 90.5%, 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-60H is equipped with various function options, such as dimming methodologies, so as to provide the optimal design flexibility for LED lighting system.



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

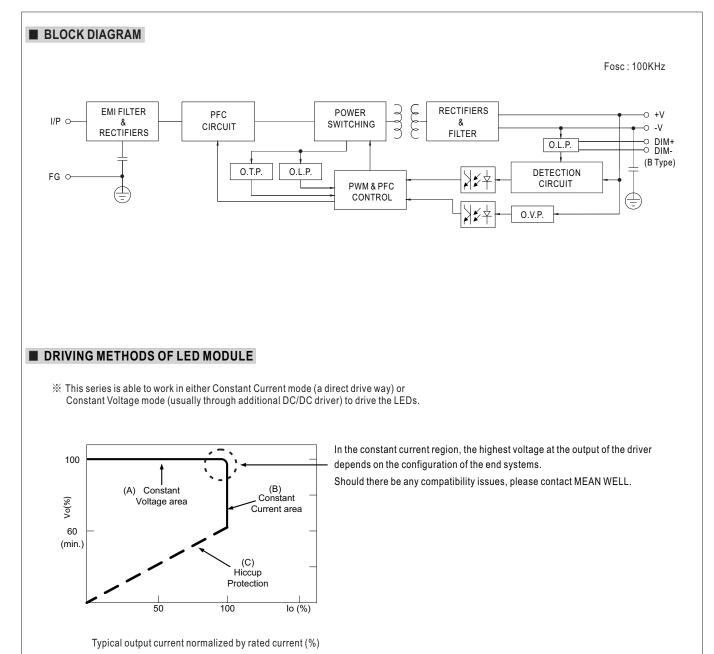
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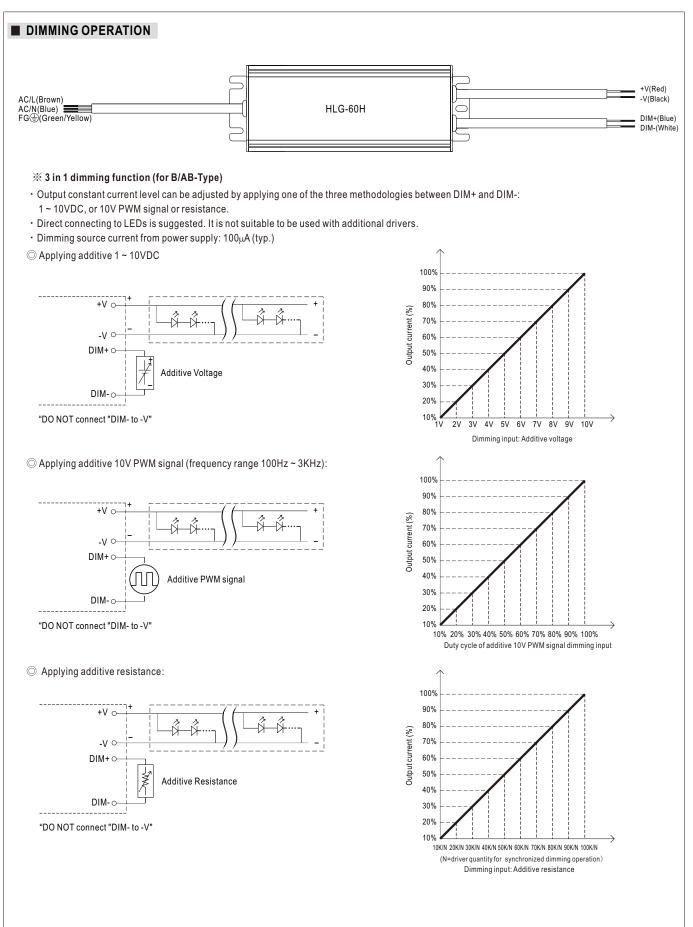
#### SPECIFICATION

MODEL		HLG-60H-15	HLG-60H-20	HLG-60H-24	] HLG-60H-30	HLG-60H-36	HLG-60H-42	HLG-60H-48	HLG-60H-54				
	DC VOLTAGE	15V	20V	24V	30V	36V	42V	48V	54V				
OUTPUT	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	4A	3A	2.5A	2A	1.7A	1.45A	1.3A	1.15A				
	RATED POWER	60W	60W	60W	60W	61.2W	60.9W	62.4W	62.1W				
	RIPPLE & NOISE (max.) Note.2	150mVp-p	150mVp-p	150mVp-p	200mVp-p	200mVp-p	300mVp-p	300mVp-p	300mVp-p				
				(via built-in pote					1 F F				
	VOLTAGE ADJ. RANGE	13.5 ~ 17V	17~22V	22 ~ 27V	27 ~ 33V	33~40V	40~46V	44 ~ 53V	49~58V				
			1	(via built-in pote		00 101	10 101	11 001	10 001				
	CURRENT ADJ. RANGE	2.4 ~ 4A	1.8 ~ 3A	1.5 ~ 2.5A	1.2 ~ 2A	1~1.7A	0.87 ~ 1.45A	0.78~1.3A	0.69 ~ 1.15				
	VOLTAGE TOLERANCE Note.3		±1.0%	± 1.0%	±1.0%	±1.0%	±1.0%	±1.0%	± 1.0%				
					±0.5%	± 0.5%	± 0.5%						
		±0.5%	$\pm 0.5\%$	$\pm 0.5\%$				±0.5%	$\pm 0.5\%$				
	LOAD REGULATION	±1.5%	± 1.0%	± 0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%				
	· · · · · · · · · · · · · · · · · · ·	500ms,80ms/1		s,80ms/230VAC	,								
	HOLD UP TIME (Typ.)	16ms / 115VAC, 230VAC											
	VOLTAGE RANGE Note.5	90 ~ 305VAC	127 ~ 431VE										
		(Please refer to "STATIC CHARACTERISTIC" section)											
	FREQUENCY RANGE	47 ~ 63Hz											
	POWER FACTOR (Typ.)	PF≧0.98/115\	/AC, PF≧0.95/2	30VAC, PF≧0.9	2/277VAC @ fu	ll load							
	FOWER FACTOR (Typ.)	(Please refer to "POWER FACTOR (PF) CHARACTERISTIC" section)											
		THD<20% (@	load≧60%/11	15VAC,230VAC;	@ load≧75%	/ 277VAC)							
INPUT	TOTAL HARMONIC DISTORTION	(Please refer	to "TOTAL HARI	MONIC DISTOR	TION (THD)" se	ection)							
	EFFICIENCY (Typ.)	87.5%	89%	89.5%	90%	90%	90%	90.5%	90.5%				
-	AC CURRENT (Typ.)	0.64A / 115VA0			\ 277VAC								
	INRUSH CURRENT(Typ.)					C; Per NEMA 410							
	MAX. No. of PSUs on 16A		( 200,40		, , , 2001/10	,							
	CIRCUIT BREAKER	9 units (circuit	breaker of type E	3) / 16 units (circ	uit breaker of ty	pe C) at 230VAC							
	LEAKAGE CURRENT	<0.75mA/277	VAC										
		<0.75mA / 277VAC											
PROTECTION	OVER CURRENT Note.4	95 ~ 108%											
		Constant current limiting, recovers automatically after fault condition is removed											
	SHORT CIRCUIT	Hiccup mode, recovers automatically after fault condition is removed											
	OVER VOLTAGE	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	· · ·	voltage, re-powe										
	WORKING TEMP.	Tcase= -40 ~ +80 $^\circ\mathrm{C}$ (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	0~95% RH										
	TEMP. COEFFICIENT	±0.03%/°C (0	~60°C)										
	VIBRATION	· ·	,	period for 72mi	n each along X	Y Z axes							
SAFETY & EMC	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 UL60950-1, TUV EN60950-1, EN60335-1											
	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC I/P-FG:2KVAC O/P-FG:1.5KVAC											
	ISOLATION RESISTANCE			Ohms / 500VD	-	стана (1997). КН							
	EMC EMISSION Note.8					%);EN61000-3-	3,GB17743 and	GB17625.1. EA	C TP TC 020				
		•				try level (surge im							
	EMC IMMUNITY	EAC TP TC 020			, , , , , , , , , , , , , , , , , , , ,								
OTHERS	MTBF	1132K hrs min.	Telcordia SR	-332 (Bellcore) ;	338K hrs min.	MIL-HDBK-217	F (25°C)						
	DIMENSION	171*61.5*36.8r	mm (L*W*H)										
	PACKING	0.73Kg; 20pcs/	15.6Kg/0.9CUF	Г									
NOTE	1. All parameters NOT special		•		ated current and	I 25℃ of ambier	it temperature.						
NOTE	2. Ripple & noise are measure			•			•	l 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.											
	6. Length of set up time is me			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									
	<ul><li>6. Length of set up time is me</li><li>7. The driver is considered as</li></ul>	a component th	at will be operat			•	•	will be affected	by the				
	<ul><li>6. Length of set up time is me</li><li>7. The driver is considered as complete installation, the fin</li></ul>	a component the	at will be operation	ist re-qualify EM	C Directive on t	he complete inst	allation again.		by the				
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	<ol> <li>6. Length of set up time is me</li> <li>7. The driver is considered as complete installation, the fin</li> <li>8. To fulfill requirements of the connected to the mains.</li> <li>9. This series meets the typical</li> </ol>	a component the nal equipment mail a latest ErP regu al life expectancy ty statement on derating of 3.5°C	nat will be operation anufacturers mu- lation for lighting y of >62,000 hou MEAN WELL's C/1000m with fai	ist re-qualify EM g fixtures, this LE urs of operation website at http:/ nless models an	C Directive on t ED driver can or when Tcase, pa /www.meanwell ld of 5°C/1000m	ne complete inst nly be used behir articularly (ⓒ poir .com. n with fan models	allation again. Id a switch witho Int (or TMP, per I In for operating al	out permanently DLC), is about 7	0℃ or less.				





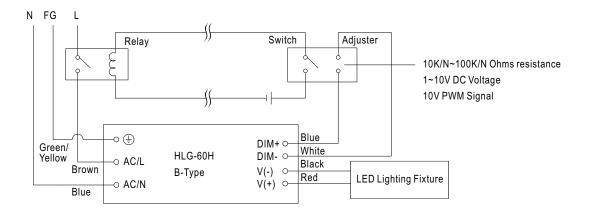






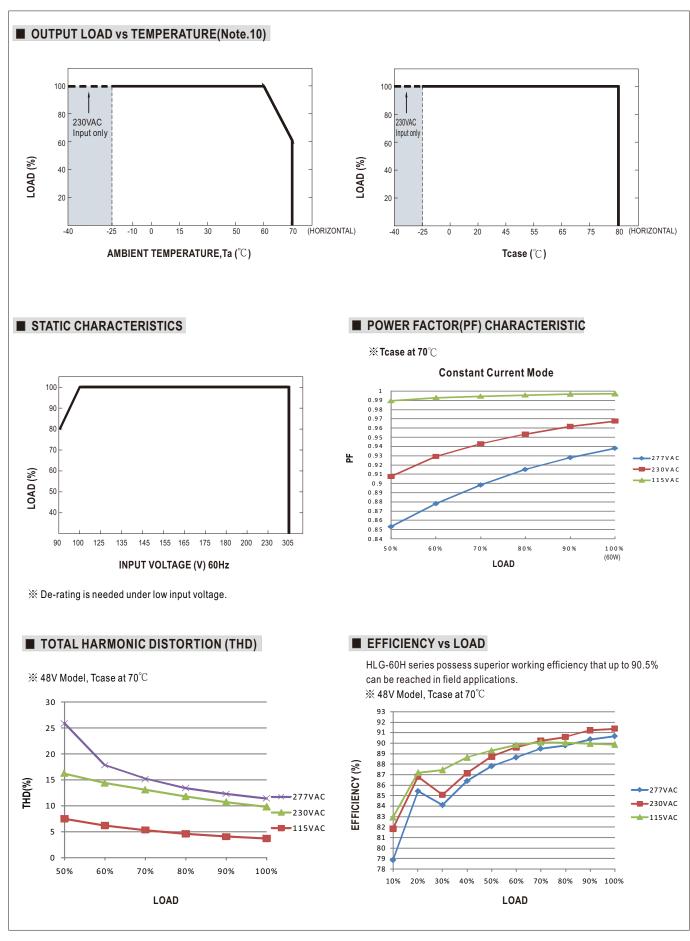
# HLG-60H series

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.

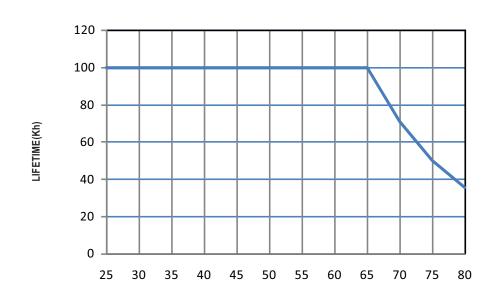






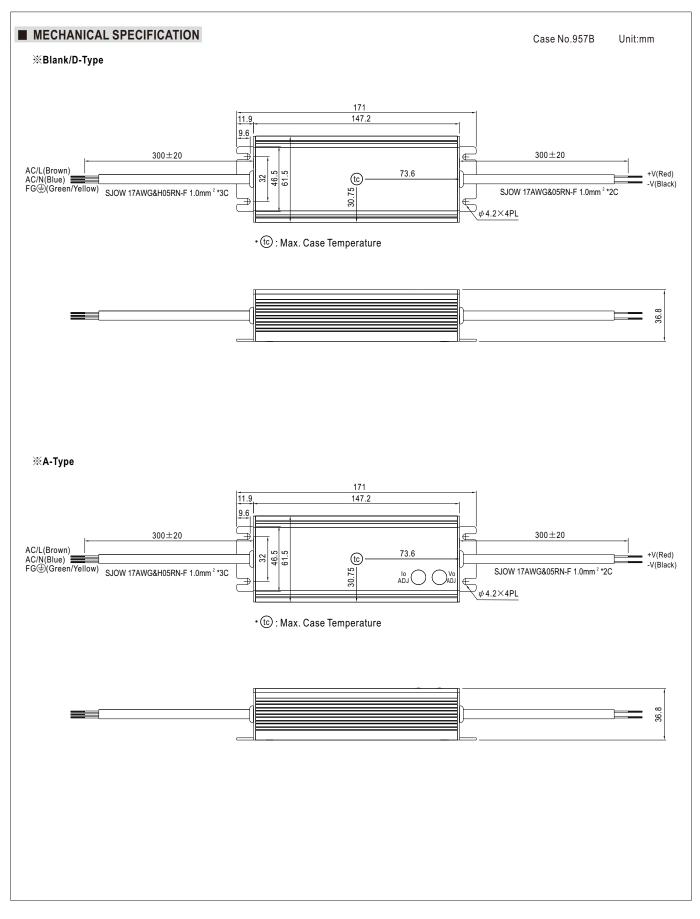
HLG-60H series

LIFE TIME

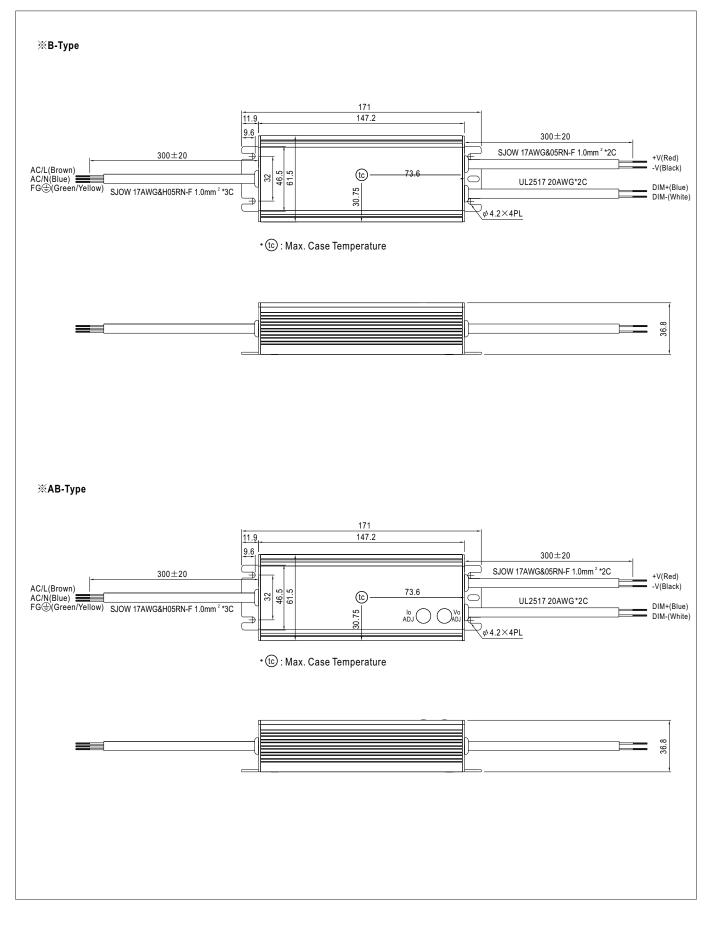


Tcase (  $^\circ\!C$  )







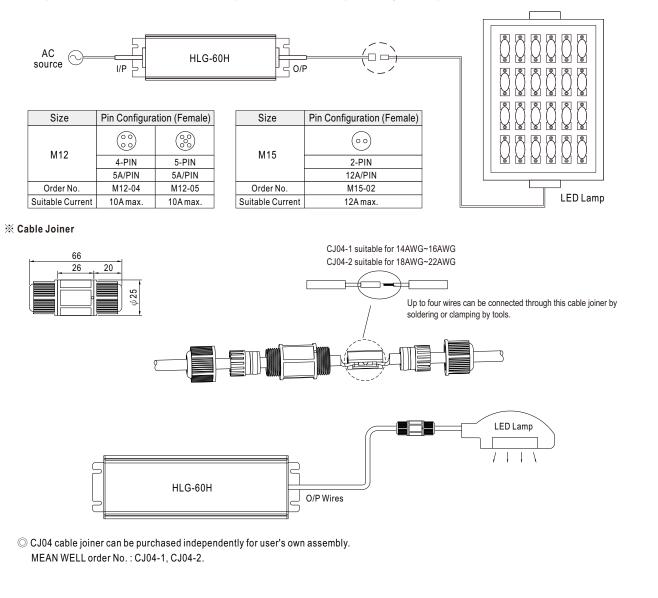




#### WATERPROOF CONNECTION

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

Waterproof connector can be assembled on the output cable of HLG-60H to operate in dry/wet/damp or outdoor environment.



#### ■ INSTALLATION MANUAL

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