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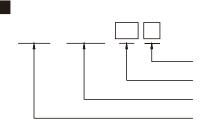


Metal housing with class J design

" " I

current output. HLG-60H operates from  $90 \sim 305$ VAC 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 °C  $^{\sim}$  +80 °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.



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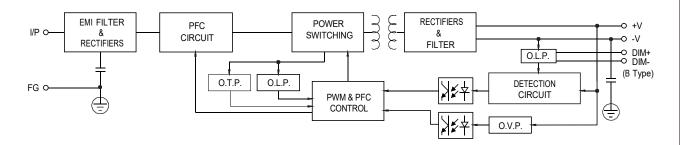


# **SPECIFICATION**

MODEL	1	HLG-60H-15	HLG-60H-20	HLG-60H-24	HLG-60H-30	HLG-60H-36	HLG-60H-42		HLG-60H-54	
	DC VOLTAGE	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	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	
		Adjustable for A	/AB-Type only (	via built-in poter	ntiometer)					
	VOLTAGE ADJ. RANGE	13.5 ~ 17V	17 ~ 22V	22 ~ 27V	27 ~ 33V	33 ~ 40V	40 ~ 46V	44 ~ 53V	49 ~ 58V	
DUTPUT			/AB-Type only (			1	1	1 001	1.0 001	
	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 ~ 1.15A	
	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%	
	LOAD REGULATION	±1.5%	±1.0%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	
	-	.6 500ms,80ms/115VAC 500ms,80ms/230VAC								
	HOLD UP TIME (Typ.)	16ms / 115VAC,	230VAC							
	VOLTAGE BANGE	90 ~ 305VAC 127 ~ 431VDC								
	VOLTAGE RANGE Note.5									
	FREQUENCY RANGE	47 ~ 63Hz								
,	TREGUENOT RAITOE		C DE > 0.05/220	1//AC DE>0.02	/277VAC @ full	load				
	POWER FACTOR (Typ.)				•					
		,		( /	CTERISTIC" sect	,				
	TOTAL HARMONIC DISTORTION	, ,			@ load ≥ 75% /	,				
NPUT		`			TION (THD)" sec					
	EFFICIENCY (Typ.)	87.5%	89%	89.5%	90%	90%	90%	90.5%	90.5%	
	AC CURRENT (Typ.)	0.64A / 115VAC	0.32A / 23	0VAC 0.3A	A / 277VAC					
	INRUSH CURRENT(Typ.)	COLD START 5	5A(twidth=265 μ s	measured at 50%	Ipeak) at 230VAC	; Per NEMA 410				
	MAX. No. of PSUs on 16A									
	CIRCUIT BREAKER	9 units (circuit b	reaker of type B)	/ 16 units (circ	uit breaker of type	e C) at 230VAC				
	LEAKAGE CURRENT	<0.75mA / 277V	ΔΛ							
	LLARAGE CORRENT		AU							
	OVER CURRENT Note.4	95 ~ 108%								
		Constant current limiting, recovers automatically after fault condition is removed								
ROTECTION	SHORT CIRCUIT	Hiccup mode, re	ecovers automati	cally after fault o	condition is remo	ved				
KOTECTION	OVER VOLTAGE	18 ~ 24V	23 ~ 30V	28 ~ 35V	35 ~ 43V	41 ~ 49V	48 ~ 58V	54 ~ 65V	59 ~ 68V	
	OVER VOLTAGE	Shut down o/p v	oltage, re-power	on to recover						
	OVER TEMPERATURE	Shut down o/p voltage, re-power on to recover								
	WORKING TEMP.	Tcase= -40 ~ +	-80°C (Please re	fer to "OUTPUT	LOAD vs TEMP	PERATURE" secti	on)			
	MAX. CASE TEMP.	Tcase= +80°C	(				/			
	-	20 ~ 95% RH no	an condensing							
NVIRONMENT	WORKING HUMIDITY									
	STORAGE TEMP., HUMIDITY	-40 ~ +80°C, 10								
	TEMP. COEFFICIENT	±0.03%/°C (0	~ 60°C)							
	VIBRATION	10 ~ 500Hz, 5G	12min./1cycle, p	eriod for 72min.	each along X, Y	, Z axes				
	SAFETY STANDARDS Note.8	UL8750(type"HL"), CSA C22.2 No. 250.0-08, EN/AS/NZS 61347-1,EN/AS/NZS 61347-2-13 independent,								
SAFETY &	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC I/P-FG:2KVAC O/P-FG:1.5KVAC								
EMC	ISOLATION RESISTANCE				/ 25°C/ 70% RF	1				
		· · · · · · · · · · · · · · · · · · ·					CD17742 2	D17605 4 FA	TD TO 000	
	EMC EMISSION Note.8  EMC IMMUNITY	3 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, light industry level (surge immunity Line-Earth 4KV, Line-Line 2KV), EAC TP TC 020								
	MTBF	1132K hrs min.		332 (Bellcore) ;	338K hre min	MIL-HDBK-217F	= (25°C)			
-				, ושכוונטופן	OUON IIIO IIIIII.	WIIE-1100K-21/	(200)			
OTHERS	DIMENSION	171*61.5*36.8mi		-						
	PACKING	0.73Kg; 20pcs/	15.6Kg/0.9CUF1		°C					
IOTE					C					
						$\bigcirc$		a a	C	
		°C	;		°C	O		o	С	
		°C	;		°C	O		o	С	

# **■** BLOCK DIAGRAM

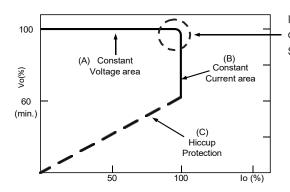
Fosc: 100KHz



60W Constant Voltage + Constant Current LED Driver

## **■** DRIVING METHODS OF LED MODULE

\* This series is able to work in either Constant Current mode (a direct drive way) or Constant Voltage mode (usually through additional DC/DC driver) to drive the LEDs.



Typical output current normalized by rated current (%)

In the constant current region, the highest voltage at the output of the driver depends on the configuration of the end systems.

Should there be any compatibility issues, please contact MEAN WELL.

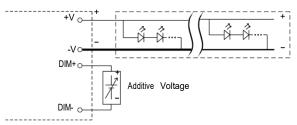


## **■ DIMMING OPERATION**



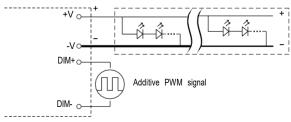
#### \* 3 in 1 dimming function (for B/AB-Type)

- Output constant current level can be adjusted by applying one of the three methodologies between DIM+ and DIM-:
  - 1 ~ 10VDC, or 10V PWM signal or resistance.
- Direct connecting to LEDs is suggested. It is not suitable to be used with additional drivers.
- -Dimming source current from power supply:  $100\mu A$  (typ.)
- O Applying additive 1 ~ 10VDC



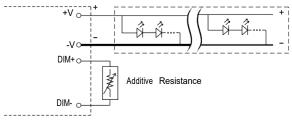
"DO NOT connect "DIM- to -V"

O Applying additive 10V PWM signal (frequency range 100Hz ~ 3KHz):

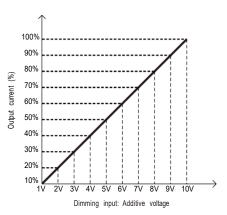


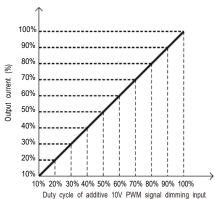
"DO NOT connect "DIM- to -V"

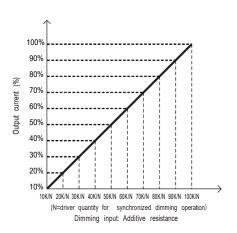
Applying additive resistance:



"DO NOT connect "DIM- to -V"

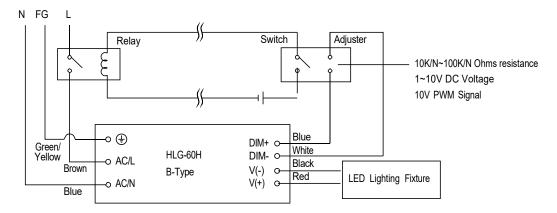






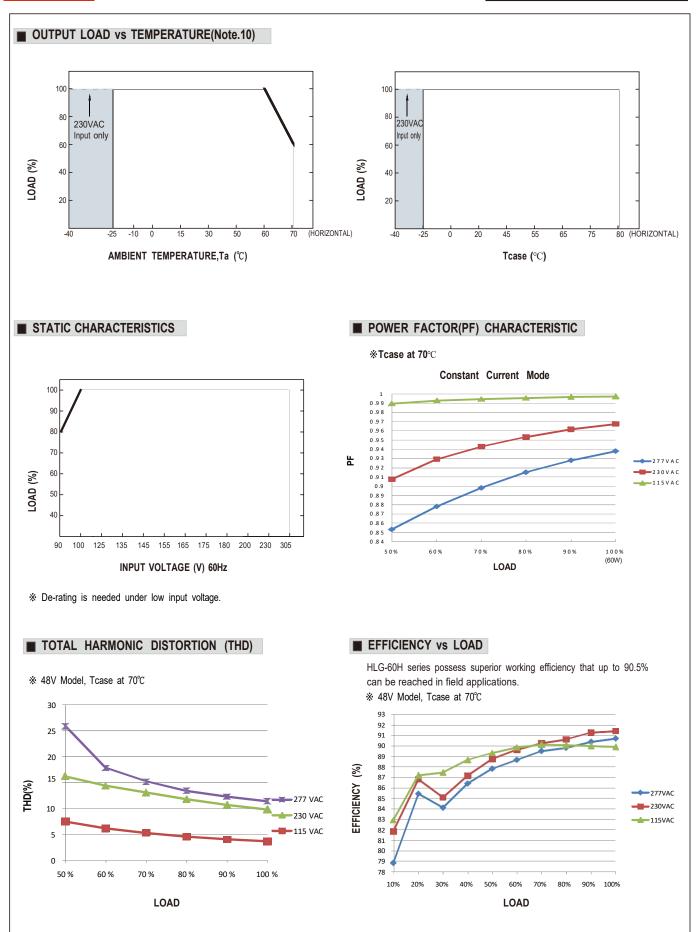


Note: In the case of turning the lighting fixture down to 0% brightness, please refer to the configuration as follow, or please contact MEAN WELL for other options.



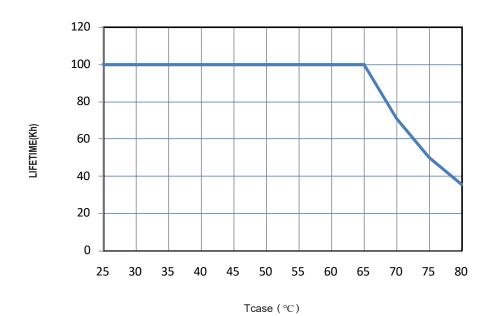
Using a switch and relay can turn ON/OFF the lighting fixture.





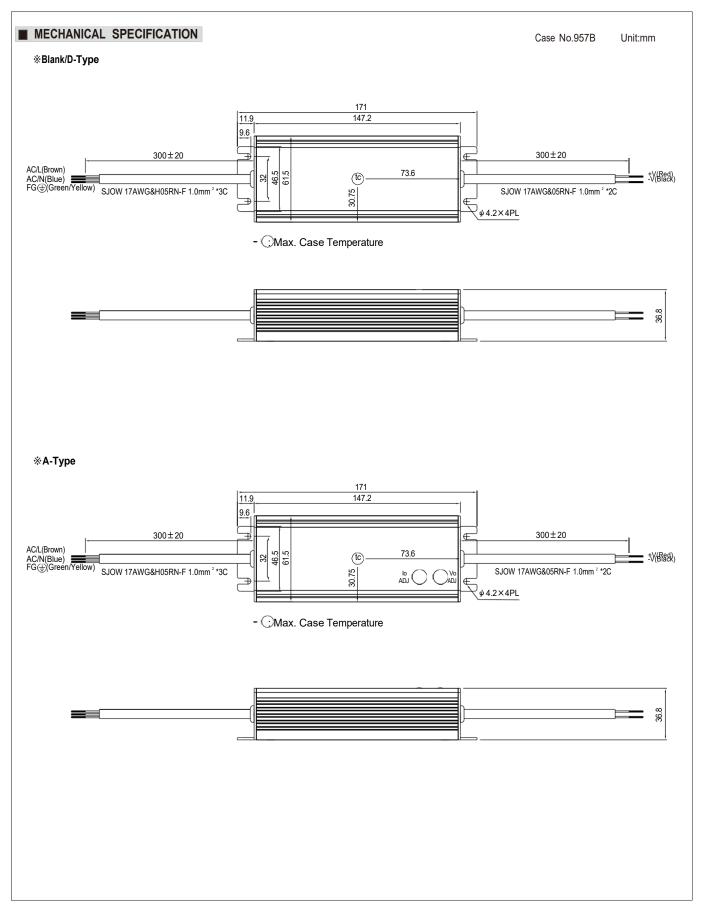




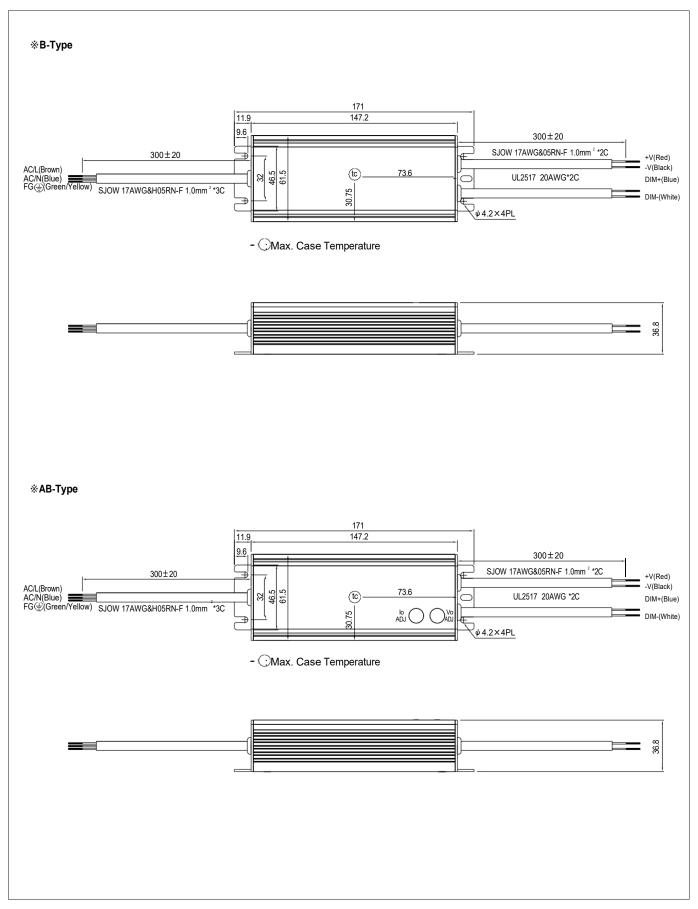










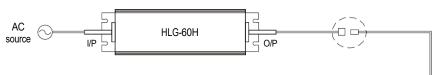




### **■** WATERPROOF CONNECTION

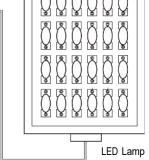
### \* Waterproof connector

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

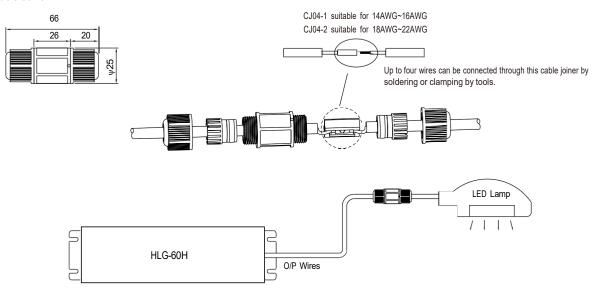


Size	Pin Configuration (Female)			
M12	000	000		
IVIIZ	4-PIN	5-PIN		
	5A/PIN	5A/PIN		
Order No.	M12-04	M12-05		
Suitable Current	10A max.	10A max.		

Pin Configuration (Female)			
00			
2-PIN			
12A/PIN			
M15-02			
12A max.			



#### \* Cable Joiner



© CJ04 cable joiner can be purchased independently for user's own assembly. MEAN WELL order No.: CJ04-1, CJ04-2.

## **■ INSTALLATION MANUAL**

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