

























### Features

- Constant Voltage + Constant Current mode output
- Metal housing with class 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

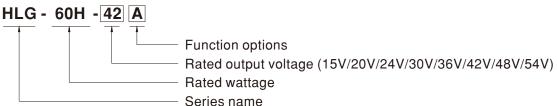
# Applications

- 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.

# Description

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  $-40^{\circ}\text{C} \sim +80^{\circ}\text{C}$  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.

## Model Encoding



Type	IP Level	Function	Note
Blank	IP67	Io and Vo fixed	In Stock
Α	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**

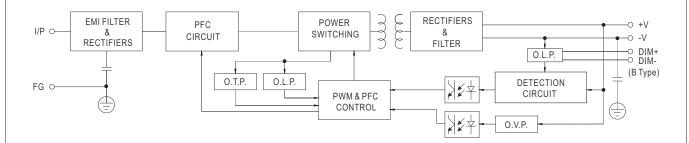
		HLG-60H-15	HLG-60H-20	HLG-60H-24	HLG-60H-30	HLG-60H-36	HLG-60H-42	HLG-60H-48	HLG-60H-54
	DC VOLTAGE	15V	20V	24V	30V	36V	42V	48V	54V
OUTPUT	CONSTANT CURRENT REGION Note.4	9 ~ 15V	12 ~ 20V	14.4 ~ 24V	18 ~ 30V	21.6 ~ 36V	25.2 ~ 42V	28.8 ~ 48V	32.4 ~ 54V
	RATED CURRENT	4A	3A	2.5A	2A	1.7A	1.45A	1.3A	1.15A
	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
	, ,	Adjustable for A/AB-Type only (via built-in potentiometer)							
	VOLTAGE ADJ. RANGE	13.5 ~ 17V	17 ~ 22V	22 ~ 27V	27 ~ 33V	33 ~ 40V	40 ~ 46V	44 ~ 53V	49 ~ 58V
			A/AB-Type only					1	
	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%
	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%
		500ms,80ms/1						± 0.5 /0	
	HOLD UP TIME (Typ.)	16ms / 115VAC,		5,001115/230VAC	'				
	TIOLD OF TIME (Typ.)	90 ~ 305VAC	127 ~ 431VD						
	VOLTAGE RANGE Note.5		"STATIC CHARA		otion)				
	EDECUENCY DAMAS	•	OTATIO CHARA	TOTEINIOTIC SE	ouon)				
	FREQUENCY RANGE	47 ~ 63Hz							
	POWER FACTOR (Typ.)				2/277VAC @ full				
		(Please refer to "POWER FACTOR (PF) CHARACTERISTIC" section)							
	TOTAL HARMONIC DISTORTION				@ load≥75% /	,			
NPUT		(Please refer to	o "TOTAL HARM	MONIC DISTOR	TION (THD)" sed	ction)			
	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	./ 277VAC				
	INRUSH CURRENT(Typ.)	COLD START 5	5A(twidth=265μs r	measured at 50%	Ipeak) at 230VAC	Per NEMA 410			
	MAX. No. of PSUs on 16A CIRCUIT BREAKER	9 units (circuit breaker of type B) / 16 units (circuit breaker of type C) at 230VAC							
	OIILOOII DILEAKEK		,,	) / To dilito (olio	uit bieakei oi typi	5 0) at 200 vA0			
	LEAKAGE CURRENT	<0.75mA / 277\		) / To dilito (oli o	uit breaker or typi				
				yr ro umio (ono	uit breaker or typ	5 0) at 200 vAO			
		95 ~ 108%	/AC	, ,		,			
	LEAKAGE CURRENT  OVER CURRENT Note.4	95 ~ 108% Constant currer	/AC	ers automatically	after fault condit	tion is removed			
ROTECTION	LEAKAGE CURRENT	95 ~ 108% Constant currer Hiccup mode, re	/AC  nt limiting, recove	ers automatically	y after fault condit	tion is removed	48 ~ 58V	54 ~ 65V	50 ~ 68V
ROTECTION	LEAKAGE CURRENT  OVER CURRENT Note.4	95 ~ 108% Constant currer Hiccup mode, re 18 ~ 24V	nt limiting, recoverecovers automat  23 ~ 30V	ers automatically ically after fault 28 ~ 35V	after fault condit	tion is removed	48 ~ 58V	54 ~ 65V	59 ~ 68V
ROTECTION	CVER CURRENT Note.4  SHORT CIRCUIT  OVER VOLTAGE	95 ~ 108%  Constant currer  Hiccup mode, re 18 ~ 24V  Shut down o/p v	AC  at limiting, recover ecovers automat  23 ~ 30V  voltage, re-powe	ers automatically ically after fault 28 ~ 35V r on to recover	y after fault condit	tion is removed	48 ~ 58V	54 ~ 65V	59 ~ 68V
ROTECTION	LEAKAGE CURRENT  OVER CURRENT  Note.4  SHORT CIRCUIT  OVER VOLTAGE  OVER TEMPERATURE	95 ~ 108%  Constant currer Hiccup mode, re 18 ~ 24V  Shut down o/p v  Shut down o/p v	nt limiting, recoverecovers automate 23 ~ 30V voltage, re-power vo	ers automatically ically after fault 28 ~ 35V r on to recover r on to recover	v after fault condition is remo	ved 41 ~ 49V		54 ~ 65V	59 ~ 68V
ROTECTION	LEAKAGE CURRENT  OVER CURRENT  Note.4  SHORT CIRCUIT  OVER VOLTAGE  OVER TEMPERATURE  WORKING TEMP.	95 ~ 108%  Constant currer Hiccup mode, re 18 ~ 24V  Shut down o/p v  Shut down o/p v  Tcase= -40 ~ +4	nt limiting, recoverecovers automate 23 ~ 30V voltage, re-power vo	ers automatically ically after fault 28 ~ 35V r on to recover r on to recover	y after fault condit	ved 41 ~ 49V		54 ~ 65V	59 ~ 68V
ROTECTION	LEAKAGE CURRENT  OVER CURRENT  Note.4  SHORT CIRCUIT  OVER VOLTAGE  OVER TEMPERATURE  WORKING TEMP.  MAX. CASE TEMP.	95 ~ 108%  Constant currer Hiccup mode, re 18 ~ 24V  Shut down o/p v  Shut down o/p v  Tcase= -40 ~ +: Tcase= +80°C	AC  at limiting, recover ecovers automat  23 ~ 30V  voltage, re-powe voltage, re-powe 80°C (Please re	ers automatically ically after fault 28 ~ 35V r on to recover r on to recover	v after fault condition is remo	ved 41 ~ 49V		54 ~ 65V	59 ~ 68V
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	LEAKAGE CURRENT  OVER CURRENT  Note.4  SHORT CIRCUIT  OVER VOLTAGE  OVER TEMPERATURE  WORKING TEMP.  MAX. CASE TEMP.  WORKING HUMIDITY  STORAGE TEMP., HUMIDITY	95 ~ 108%  Constant currer  Hiccup mode, re 18 ~ 24V  Shut down o/p v  Shut down o/p v  Tcase= -40 ~ +4  Tcase= +80°C  20 ~ 95% RH ne -40 ~ +80°C, 10	AC  at limiting, recover ecovers automat 23 ~ 30V  voltage, re-powe voltage, re-powe 80°C (Please re  on-condensing 0 ~ 95% RH	ers automatically ically after fault 28 ~ 35V r on to recover r on to recover	v after fault condition is remo	ved 41 ~ 49V		54 ~ 65V	59 ~ 68V
	LEAKAGE CURRENT  OVER CURRENT  Note.4  SHORT CIRCUIT  OVER VOLTAGE  OVER TEMPERATURE  WORKING TEMP.  MAX. CASE TEMP.  WORKING HUMIDITY	95 ~ 108%  Constant currer Hiccup mode, re 18 ~ 24V  Shut down o/p v Shut down o/p v Tcase= -40 ~ ++ Tcase= +80°C 20 ~ 95% RH ne	AC  at limiting, recover ecovers automat 23 ~ 30V  voltage, re-powe voltage, re-powe 80°C (Please re  on-condensing 0 ~ 95% RH	ers automatically ically after fault 28 ~ 35V r on to recover r on to recover	v after fault condition is remo	ved 41 ~ 49V		54 ~ 65V	59 ~ 68V
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	LEAKAGE CURRENT  OVER CURRENT  Note.4  SHORT CIRCUIT  OVER VOLTAGE  OVER TEMPERATURE  WORKING TEMP.  MAX. CASE TEMP.  WORKING HUMIDITY  STORAGE TEMP., HUMIDITY  TEMP. COEFFICIENT	95 ~ 108% Constant currer Hiccup mode, re $18 \sim 24V$ Shut down o/p v Shut down o/p v Tcase= -40 ~ +: Tcase= +80°C 20 ~ 95% RH no -40 ~ +80°C, 10 $\pm$ 0.03%/°C (0 10 ~ 500Hz, 5G UL8750(type"H GB19510.1, GE	AC  at limiting, recover ecovers automat  23 ~ 30V  voltage, re-powe voltage, re-powe 80°C (Please re  con-condensing 0 ~ 95% RH ~ 60°C) 12min./1cycle, p HL"), CSA C22.2 819510.14,EAC	ers automatically ically after fault   28 ~ 35V   r on to recover r on to recover   fer to "OUTPUT"   period for 72mir   No. 250.0-08, TP TC 004,KC6	after fault condition is remo 35 ~ 43V  LOAD vs TEMP	tion is removed ved 41 ~ 49V  ERATURE" sect 7, Z axes 47-1,EN/AS/NZS 7-2-13(except fr	ion) 6 61347-2-13 int or AB-type), IP6		
IVIRONMENT	LEAKAGE CURRENT  OVER CURRENT  Note.4  SHORT CIRCUIT  OVER VOLTAGE  OVER TEMPERATURE  WORKING TEMP.  MAX. CASE TEMP.  WORKING HUMIDITY  STORAGE TEMP., HUMIDITY  TEMP. COEFFICIENT  VIBRATION	95 ~ 108% Constant currer Hiccup mode, re Hiccup mode, re $18 \sim 24V$ Shut down o/p $\times$ Shut down o/p $\times$ Tcase= $-40 \sim +1$ Tcase= $+80^{\circ}$ C $20 \sim 95\%$ RH no $-40 \sim +80^{\circ}$ C, $10 \sim 500$ Hz, $56$ UL8750(type"H GB19510.1, GE J61347-1, J613	AC  at limiting, recover ecovers automat  23 ~ 30V  voltage, re-powe voltage, re-powe 80°C (Please re  con-condensing 0 ~ 95% RH ~ 60°C) 12min./1cycle, p HL"), CSA C22.2 819510.14,EAC	ers automatically ically after fault 28 ~ 35V r on to recover r on to recover fer to "OUTPUT"  period for 72mir 2 No. 250.0-08, TP TC 004,KC6 ot for B,AB and I	after fault condition is remo 35 ~ 43V  LOAD vs TEMP  a. each along X, Y  EN/AS/NZS 6134 1347-1,KC6134  O-type); design is	tion is removed ved 41 ~ 49V  ERATURE" sect 7, Z axes 47-1,EN/AS/NZS 7-2-13(except fr	ion) 6 61347-2-13 int or AB-type), IP6	dependent,	
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AFETY &	LEAKAGE CURRENT  OVER CURRENT  Note.4  SHORT CIRCUIT  OVER VOLTAGE  OVER TEMPERATURE  WORKING TEMP.  MAX. CASE TEMP.  WORKING HUMIDITY  STORAGE TEMP., HUMIDITY  TEMP. COEFFICIENT  VIBRATION  SAFETY STANDARDS Note.8	95 ~ 108%  Constant currer  Hiccup mode, re  18 ~ 24V  Shut down o/p v  Shut down o/p v  Tcase= -40 ~ ++  Tcase= +80°C  20 ~ 95% RH nc  -40 ~ +80°C, 10  ± 0.03%/°C (0  10 ~ 500Hz, 5G  UL8750(type"  GB19510.1, GE  J61347-1, J61:  I/P-O/P:3.75KV  I/P-O/P, I/P-FG  Compliance to Compliance to I	nt limiting, recovered automated and limiting, recovered automated and an accordance automated and accordance automated and accordance automated and accordance automated and accordance automated a	ers automatically ically after fault 28 ~ 35V r on to recover r on to recover fer to "OUTPUT"  Period for 72mir Process Proces	after fault condition is remo  35 ~ 43V  LOAD vs TEMP  1. each along X, Y EN/AS/NZS 6134 61347-1,KC6134 0-type); design i 6:1.5KVAC  C / 25°C / 70% RF  C (@ load ≥ 60%	tion is removed ved 41 ~ 49V  ERATURE" sect 7, Z axes 47-1,EN/AS/NZS 7-2-13(except firefer to EN60333	ion) 6 61347-2-13 inc or AB-type), IP6 5-1(by request) 6,GB17743 and 6	dependent,	red;
AVIRONMENT	LEAKAGE CURRENT  OVER CURRENT  Note.4  SHORT CIRCUIT  OVER VOLTAGE  OVER TEMPERATURE  WORKING TEMP.  MAX. CASE TEMP.  WORKING HUMIDITY  STORAGE TEMP., HUMIDITY  TEMP. COEFFICIENT  VIBRATION  SAFETY STANDARDS Note.8  WITHSTAND VOLTAGE  ISOLATION RESISTANCE  EMC EMISSION Note.8	95 ~ 108%  Constant currer Hiccup mode, re $18 \sim 24V$ Shut down o/p v Shut down o/p v Tcase= -40 ~ ++ Tcase= +80°C 20 ~ 95% RH nc $-40 \sim +80°C$ , 10 $\pm 0.03\%°C$ (0 $10 \sim 500Hz$ , 5G UL8750(type" GB19510.1,GE J61347-1, J613 I/P-O/P:3.75KV I/P-O/P, I/P-FG Compliance to I EAC TP TC 020	nt limiting, recovered automated and control of the	ers automatically ically after fault  28 ~ 35V r on to recover r on to recover fer to "OUTPUT  Period for 72mir R No. 250.0-08, 17 TC 004, KC6 ot for B,AB and I KVAC O/P-FC Ohms / 500VD 1000-3-2 Class 4,5,6,8,11; EN61	after fault condition is remo  35 ~ 43V  LOAD vs TEMP  1. each along X, Y EN/AS/NZS 6134 0-type); design is 6:1.5KVAC  C / 25°C / 70% RF  C (@ load ≥ 60% 547, light industr	ERATURE" sect  7, Z axes  47-1,EN/AS/NZS  7-2-13(except frefer to EN603334  b); EN61000-3-3  y level (surge imi	ion) 6 61347-2-13 incor AB-type), IP6 6-1(by request) 7,GB17743 and 0 munity Line-Earth	dependent, 5 or IP67 approv	red;
AFETY &	LEAKAGE CURRENT  OVER CURRENT  Note.4  SHORT CIRCUIT  OVER VOLTAGE  OVER TEMPERATURE  WORKING TEMP.  MAX. CASE TEMP.  WORKING HUMIDITY  STORAGE TEMP., HUMIDITY  TEMP. COEFFICIENT  VIBRATION  SAFETY STANDARDS Note.8  WITHSTAND VOLTAGE  ISOLATION RESISTANCE  EMC EMISSION Note.8  EMC IMMUNITY  MTBF	95 ~ 108% Constant currer Hiccup mode, re Hiccup mode, re 18 ~ 24V Shut down o/p $\times$ Shut down o/p $\times$ Shut down o/p $\times$ Tcase= +80°C 20 ~ 95% RH nc $\times$ 40 ~ +80°C, 10 $\times$ 500Hz, 5G UL8750(type" GB19510.1, GE J61347-1, J61: I/P-O/P:3.75KV I/P-O/P, I/P-FG Compliance to EAC TP TC 020 1132K hrs min.	nt limiting, recovered automated and control of the	ers automatically ically after fault 28 ~ 35V r on to recover r on to recover fer to "OUTPUT"  Period for 72mir Process Proces	after fault condition is remo  35 ~ 43V  LOAD vs TEMP  1. each along X, Y EN/AS/NZS 6134 0-type); design is 6:1.5KVAC  C / 25°C / 70% RF  C (@ load ≥ 60% 547, light industr	tion is removed ved 41 ~ 49V  ERATURE" sect 7, Z axes 47-1,EN/AS/NZS 7-2-13(except firefer to EN60333	ion) 6 61347-2-13 incor AB-type), IP6 6-1(by request) 7,GB17743 and 0 munity Line-Earth	dependent, 5 or IP67 approv	red;
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- 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.
- 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 (c) point (or TMP, per DLC), is about 70°C or less.
- 10. Please refer to the warranty statement on MEAN WELL's website at http://www.meanwell.com.
- 11. 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).
- 12. 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
- File Name:HLG-60H-SPEC 2020-09-25 ※ Product Liability Disclaimer: For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx



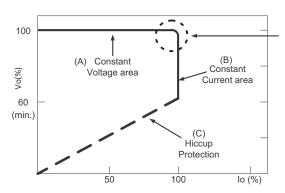
### ■ BLOCK DIAGRAM

Fosc: 100KHz



#### ■ DRIVING METHODS OF LED MODULE

X 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.



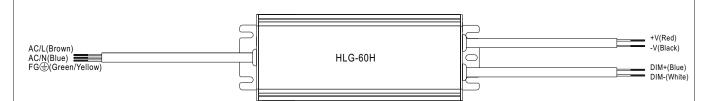
Typical output current normalized by rated current (%)

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.

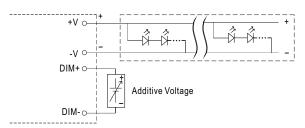


### ■ DIMMING OPERATION



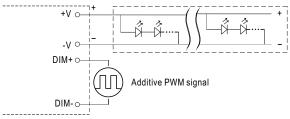
#### imes 3 in 1 dimming function (for B/AB-Type)

- 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.)
- $\bigcirc$  Applying additive 1 ~ 10VDC



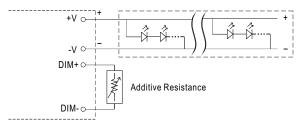
"DO NOT connect "DIM- to -V"

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

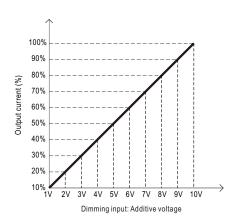


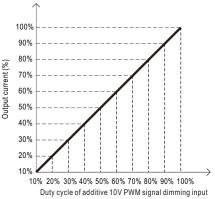
"DO NOT connect "DIM- to -V"

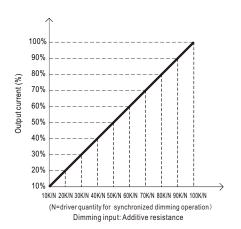
Applying additive resistance:



"DO NOT connect "DIM- to -V"

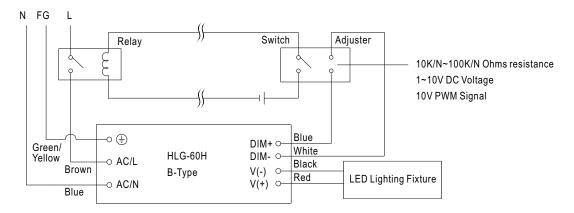






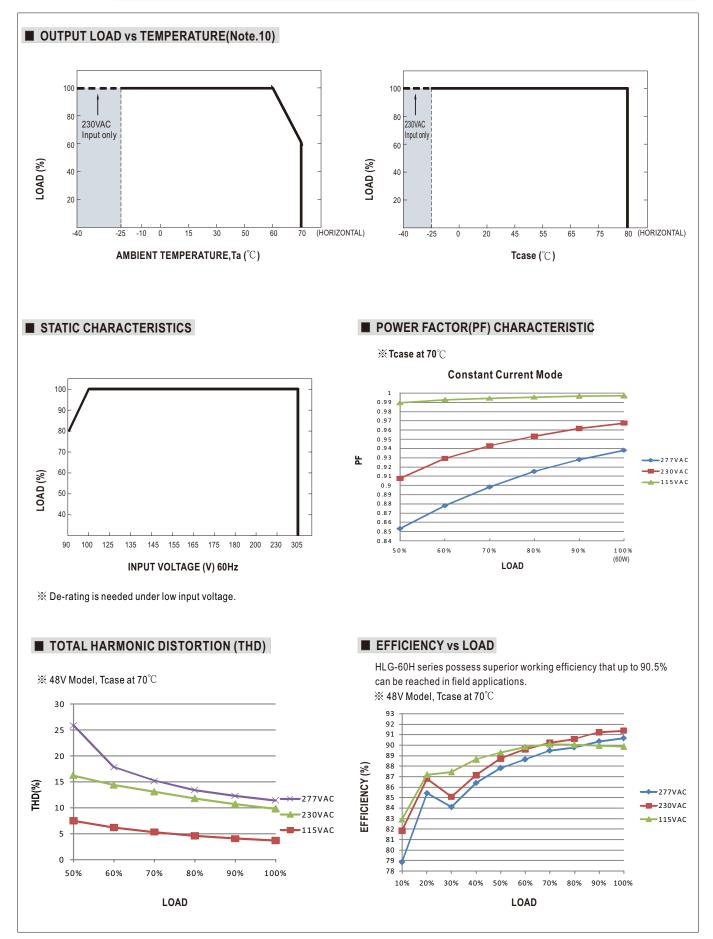


Note: In the case of turning the lighting fixture down to 0% brightness, please refer to the configuration as follow, or please contact MEAN WELL for other options.



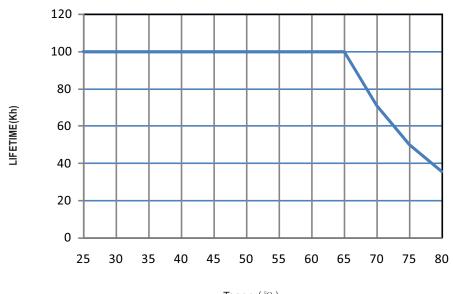
Using a switch and relay can turn ON/OFF the lighting fixture.





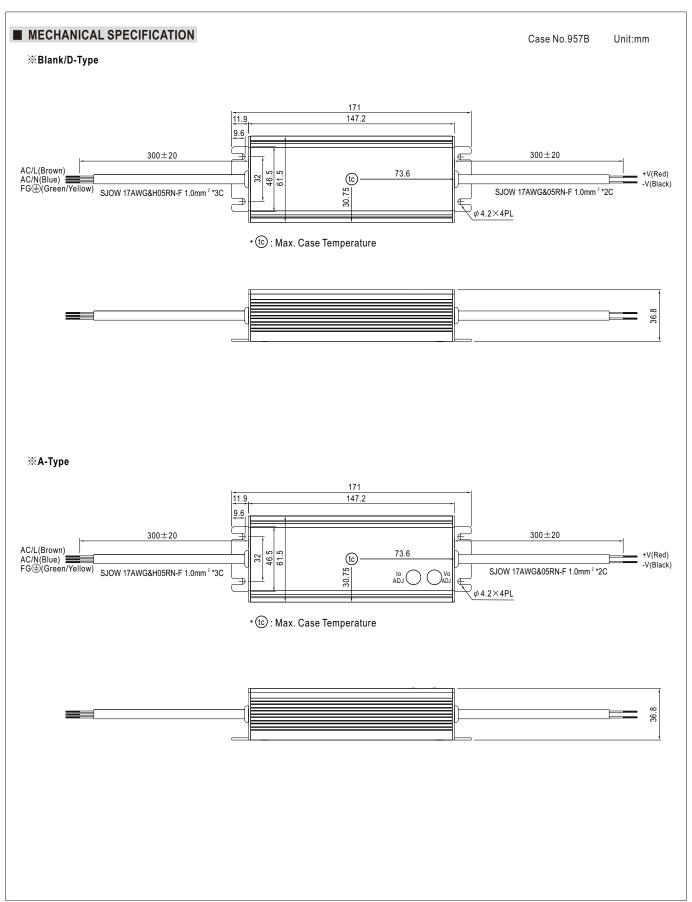


## ■ LIFE TIME

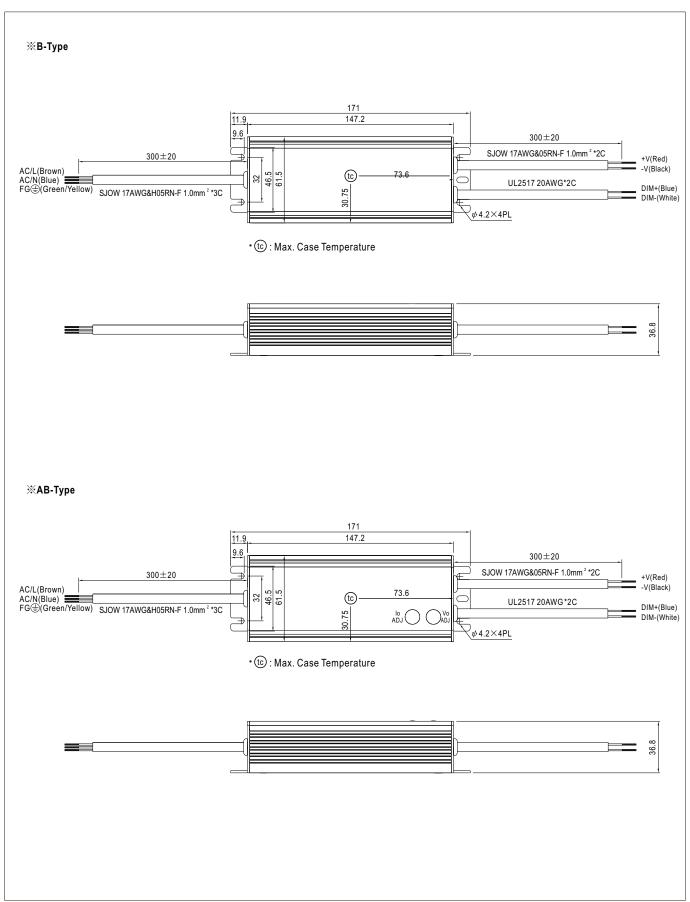


Tcase (°C)







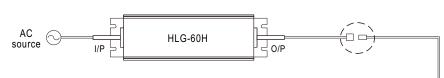




#### **■ WATERPROOF CONNECTION**

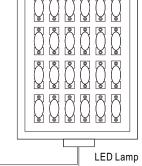
#### Waterproof connector

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

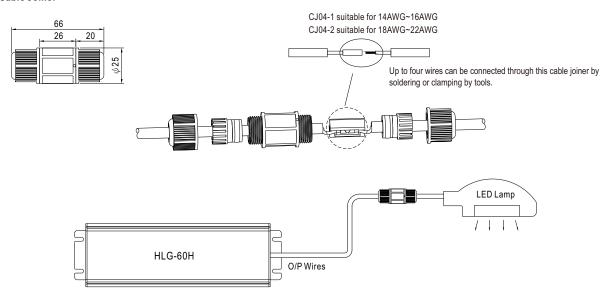


Size	Pin Configuration (Female)				
M12	000	<u></u>			
IVITZ	4-PIN	5-PIN			
	5A/PIN	5A/PIN			
Order No.	M12-04	M12-05			
Suitable Current	10A max.	10A max.			

Size	Pin Configuration (Female)			
M15	00			
IVITO	2-PIN			
	12A/PIN			
Order No.	M15-02			
Suitable Current	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