









#### 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

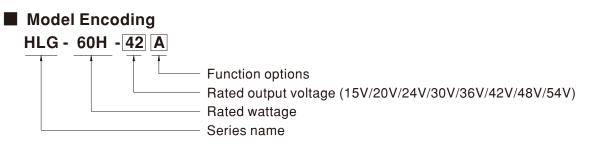
### Applications

- · 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: <u>https://www.meanwell.com/serviceGTIN.aspx</u>

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

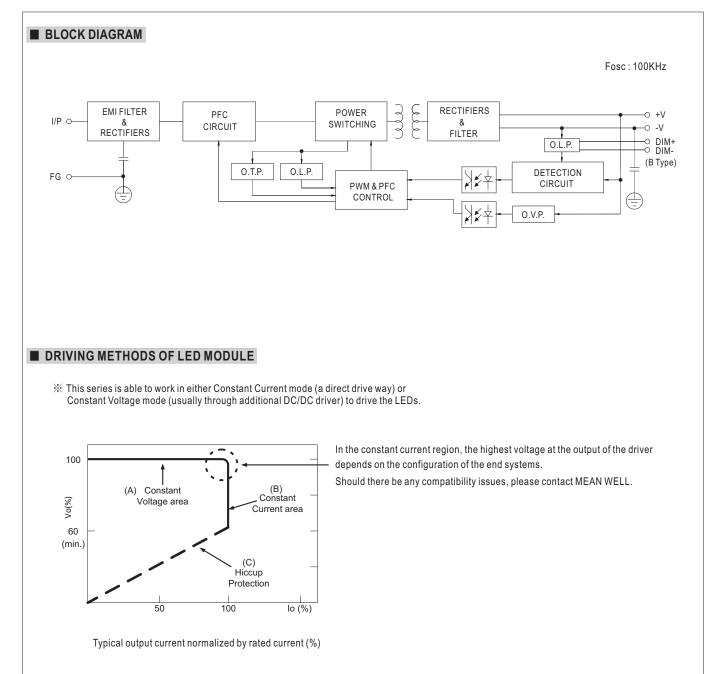
File Name:HLG-60H-SPEC 2022-02-18



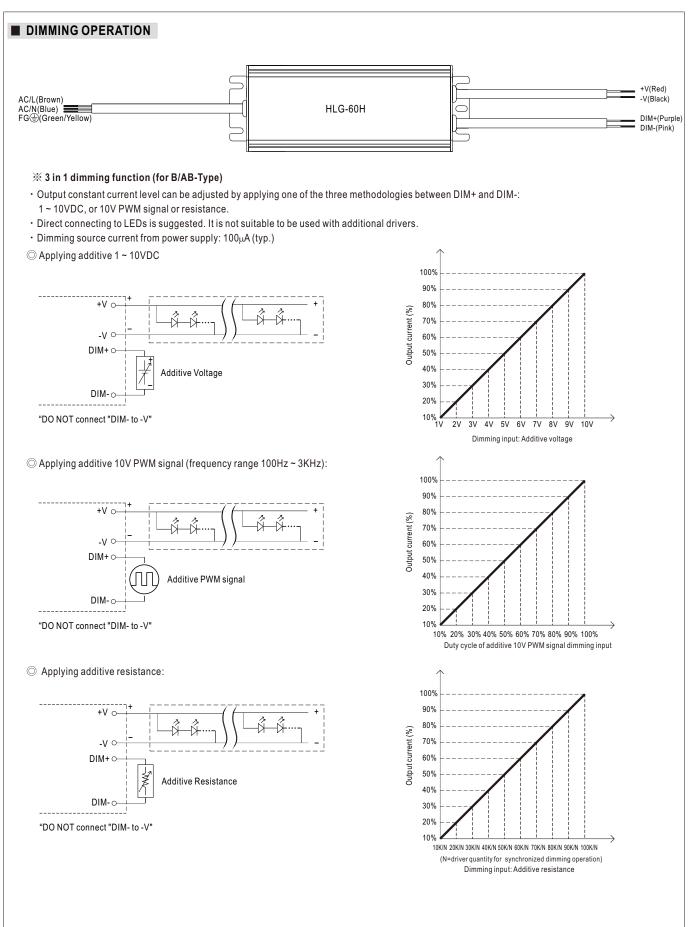
#### SPECIFICATION

DC VOLTAGE CONSTANT CURRENT REGION Note.4 RATED CURRENT RATED POWER RIPPLE & NOISE (max.) Note.2 /OLTAGE ADJ. RANGE CURRENT ADJ. RANGE /OLTAGE TOLERANCE Note.3 INE REGULATION COAD REGULATION SETUP, RISE TIME Note.6	4A 60W 150mVp-p Adjustable for <i>A</i> 13.5 ~ 17V Adjustable for <i>A</i> 2.4 ~ 4A	17 ~ 22V A/AB-Type only	HLG-60H-24 24V 14.4 ~ 24V 2.5A 60W 150mVp-p via built-in pote 22 ~ 27V	HLG-60H-30 30V 18 ~ 30V 2A 60W 200mVp-p	HLG-60H-36           36V           21.6 ~ 36V           1.7A           61.2W           200mVp-p	HLG-60H-42 42V 25.2 ~ 42V 1.45A 60.9W 300mVp-p	HLG-60H-48           48V           28.8 ~ 48V           1.3A           62.4W           300mV/n n	HLG-60H-54 54V 32.4 ~ 54V 1.15A 62.1W	
CONSTANT CURRENT REGION Note.4 RATED CURRENT RATED POWER RIPPLE & NOISE (max.) Note.2 /OLTAGE ADJ. RANGE CURRENT ADJ. RANGE /OLTAGE TOLERANCE Note.3 .INE REGULATION .OAD REGULATION	9 ~ 15V 4A 60W 150mVp-p Adjustable for A 13.5 ~ 17V Adjustable for A 2.4 ~ 4A	12 ~ 20V 3A 60W 150mVp-p \/AB-Type only 17 ~ 22V \/AB-Type only	14.4 ~ 24V 2.5A 60W 150mVp-p (via built-in pote	18 ~ 30V 2A 60W 200mVp-p	21.6 ~ 36V 1.7A 61.2W	25.2 ~ 42V 1.45A 60.9W	28.8 ~ 48V 1.3A 62.4W	32.4 ~ 54V 1.15A 62.1W	
AATED CURRENT RATED POWER RIPPLE & NOISE (max.) Note.2 /OLTAGE ADJ. RANGE CURRENT ADJ. RANGE /OLTAGE TOLERANCE Note.3 .INE REGULATION .OAD REGULATION	4A 60W 150mVp-p Adjustable for <i>A</i> 13.5 ~ 17V Adjustable for <i>A</i> 2.4 ~ 4A	3A 60W 150mVp-p V/AB-Type only 17 ~ 22V V/AB-Type only	2.5A 60W 150mVp-p (via built-in pote	2A 60W 200mVp-p	1.7A 61.2W	1.45A 60.9W	1.3A 62.4W	1.15A 62.1W	
ATED POWER RIPPLE & NOISE (max.) Note.2 /OLTAGE ADJ. RANGE CURRENT ADJ. RANGE /OLTAGE TOLERANCE Note.3 .INE REGULATION .OAD REGULATION	60W 150mVp-p Adjustable for A 13.5 ~ 17V Adjustable for A 2.4 ~ 4A	60W 150mVp-p A/AB-Type only 17 ~ 22V A/AB-Type only	60W 150mVp-p (via built-in pote	60W 200mVp-p	61.2W	60.9W	62.4W	62.1W	
RIPPLE & NOISE (max.) Note.2 /OLTAGE ADJ. RANGE CURRENT ADJ. RANGE /OLTAGE TOLERANCE Note.3 .INE REGULATION .OAD REGULATION	150mVp-p Adjustable for A 13.5 ~ 17V Adjustable for A 2.4 ~ 4A	150mVp-p A/AB-Type only ( 17 ~ 22V A/AB-Type only (	150mVp-p (via built-in pote	200mVp-p			-		
/OLTAGE ADJ. RANGE CURRENT ADJ. RANGE /OLTAGE TOLERANCE Note.3 .INE REGULATION .OAD REGULATION	Adjustable for A 13.5 ~ 17V Adjustable for A 2.4 ~ 4A	A/AB-Type only 17 ~ 22V A/AB-Type only	via built-in pote		200mVp-p	300mVp-p	300m\/n n		
CURRENT ADJ. RANGE /OLTAGE TOLERANCE Note.3 .INE REGULATION .OAD REGULATION	13.5 ~ 17V Adjustable for A 2.4 ~ 4A	17 ~ 22V A/AB-Type only			1		300mVp-p	300mVp-p	
CURRENT ADJ. RANGE /OLTAGE TOLERANCE Note.3 .INE REGULATION .OAD REGULATION	Adjustable for A 2.4 ~ 4A	A/AB-Type only	22 ~ 27V	ntiometer)					
OLTAGE TOLERANCE Note.3 INE REGULATION OAD REGULATION	2.4 ~ 4A			27 ~ 33V	33 ~ 40V	40~46V	44 ~ 53V	49~58V	
OLTAGE TOLERANCE Note.3 INE REGULATION OAD REGULATION			(via built-in pote	ntiometer)					
INE REGULATION	±2.0%	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	
OAD REGULATION		±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	
	$\pm 0.5\%$	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	
	±1.5%	±1.0%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	
	500ms,80ms/1		I		1	1			
IOLD UP TIME (Typ.)	16ms / 115VAC, 230VAC								
1020 01 11112 (13p.)	90 ~ 305VAC 127 ~ 431VDC								
OLTAGE RANGE Note.5									
REQUENCY RANGE	47~63Hz								
OWER FACTOR (Typ.)	PF≧0.98/115VAC, PF≧0.95/230VAC, PF≧0.92/277VAC @ full load								
,	(Please refer to "POWER FACTOR (PF) CHARACTERISTIC" section)								
OTAL HARMONIC DISTORTION	THD<20% (@ load≥60% / 115VAC,230VAC; @ load≥75% / 277VAC)								
				· ,	,				
EFFICIENCY (Typ.)	87.5%	89%	89.5%	90%	90%	90%	90.5%	90.5%	
AC CURRENT (Typ.)									
NRUSH CURRENT(Typ.)	COLD START 5	5A(twidth=265µs r	measured at 50%	Ipeak) at 230VAC	; Per NEMA 410				
IAX. No. of PSUs on 16A	s on 16A								
IRCUIT BREAKER	9 units (circuit breaker of type B) / 16 units (circuit breaker of type C) at 230VAC								
EAKAGE CURRENT	JRRENT <0.75mA/277VAC								
	95 ~ 108%								
OVER CURRENT Note.4									
HORT CIRCUIT									
						48~58V	54 ~ 65V	59~68V	
OVER VOLTAGE									
						tion)			
					LINATONE Sect	.1011)			
	,								
		,			/ 7				
IBRATION				•					
	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, B CB19510, 1, CB19510, 14, EAC TP TC 004, KC61347-1, KC61347-2-13 (except for AB-type), JP65 or JP67 approved :								
ALETTOTANDARDO NOLE.0									
VITHSTAND VOLTAGE									
SOLATION RESISTANCE	,	,					0.0.0.0.0.0.1.7.7.40		
EMC EMISSION Note.8 Compliance to BS EN/EN55015, BS EN/EN61000-3-2 Class C (@ load ≥ 60%); BS EN/EN61000-3-3,GB17743 and GB EAC TP TC 020							and GB17625.1		
MC IMMUNITY	2KV),EAC TP TC 020								
<b>ITBF</b>	· · ·		R-332 (Bellcore)	;345.8K hrs mir	. MIL-HDBK-2	217F (25℃)			
DIMENSION			()	,		( )			
		1 /							
				ted current and	25℃ of ambien	t temperature			
							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.									
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 mosts the two calling expectancy of $\sim 62,000$ hours of operation when Tease particularly (a) point (or TMP, per DLC), is about $70^{\circ}$ or less									
O This series mast- that the	<ul> <li>9. This series meets the typical life expectancy of &gt;62,000 hours of operation when Tcase, particularly (tc) point (or TMP, per DLC), is about 70 °C or less.</li> <li>10. Please refer to the warranty statement on MEAN WELL's website at http://www.meanwell.com.</li> </ul>								
	v etatomont on		•	MAAAAA MOODUNGII	rom				
10. Please refer to the warrant			website at http://			for operating alt	itude higher tha	n 2000m/6500	
<ol> <li>Please refer to the warrant</li> <li>The ambient temperature of</li> </ol>	derating of 3.5°C	/1000m with far	website at http://	d of 5°C/1000m	with fan models		itude higher that	n 2000m(6500	
10. Please refer to the warrant	derating of 3.5°C nd IP water proo	/1000m with far f function installa	website at http://	d of 5°C/1000m	with fan models		itude higher tha	n 2000m(6500	
	C CURRENT (Typ.) RUSH CURRENT (Typ.) AX. No. of PSUs on 16A IRCUIT BREAKER EAKAGE CURRENT VER CURRENT VER CURRENT VER VOLTAGE VER TEMPERATURE ORKING TEMP. AX. CASE TEMP. ORKING HUMIDITY TORAGE TEMP., HUMIDITY EMP. COEFFICIENT BRATION AFETY STANDARDS Note.8 ITHSTAND VOLTAGE OLATION RESISTANCE MC IMMUNITY TBF MENSION ACKING . All parameters NOT special . Ripple & noise are measure . Tolerance : includes set up . Please refer to "DRIVING M . De-rating may be needed u . Length of set up time is mea. . The driver is considered as	FFICIENCY (Typ.)       87.5%         C CURRENT (Typ.)       0.64A / 115VAC         RUSH CURRENT (Typ.)       COLD START 5         AX. No. of PSUs on 16A       9 units (circuit the current of the constant current of the cu	FFICIENCY (Typ.)       87.5%       89%         C CURRENT (Typ.)       0.64A / 115VAC       0.32A / 23         IRUSH CURRENT (Typ.)       COLD START 55A(twidth=265µs r         AX. No. of PSUs on 16A       9 units (circuit breaker of type B         RCUIT BREAKER       9 units (circuit breaker of type B         EAKAGE CURRENT       <0.75mA / 277VAC	FFICIENCY (Typ.)       87.5%       89%       89.5%         C CURRENT (Typ.)       0.64A / 115VAC       0.32A / 230VAC       0.3A         RUSH CURRENT (Typ.)       COLD START 55A(twidth=265,:s measured at 50%         AX. No. of PSUs on 16A RCUIT BREAKER       9 units (circuit breaker of type B) / 16 units (circuit breaker of the B) / 10 units (circuit breaker of the Contreaker eneat the B) / 10 units (circuit breaker of th	FFICIENCY (Typ.)       87.5%       89%       89.5%       90%         C CURRENT (Typ.)       0.64A / 115VAC       0.32A / 230VAC       0.3A / 277VAC         IRUSH CURRENT(Typ.)       COLD START 55A(twidth=265µs measured at 50% lpeak) at 230VAC         AX. No. of PSUs on 16A       9 units (circuit breaker of type B) / 16 units (circuit breaker of typ         EAKAGE CURRENT       <0.75mA / 277VAC	C CURRENT (Typ.)       0.64A / 115VAC       0.32A / 230VAC       0.3A / 277VAC         RUSH CURRENT (Typ.)       COLD START 55A(twidth=265):s measured at 50% lpeak) at 230VAC; Per NEMA 410         AX. No. of PSUs on 16A       9 units (circuit breaker of type B) / 16 units (circuit breaker of type C) at 230VAC         EAKAGE CURRENT       <0.75mA / 277VAC	FFICIENCY (Typ.)       87.5%       89%       89.5%       90%       90%       90%       90%         C CURRENT (Typ.)       0.64A /115VAC       0.32A /230VAC       0.3A /277VAC         RUSH CURRENT (Typ.)       COLD START 55A(twdm=265,s measured at 50%  peak) at 230VAC; Per NEMA 410         AX. No. of PSUs on 16A       9 units (circuit breaker of type B) / 16 units (circuit breaker of type C) at 230VAC         EAKAGE CURRENT       <0.75mA / 277VAC	EFICIENCY (Typ.)         87.5%         89%         89.5%         90.5%         80%         80%	





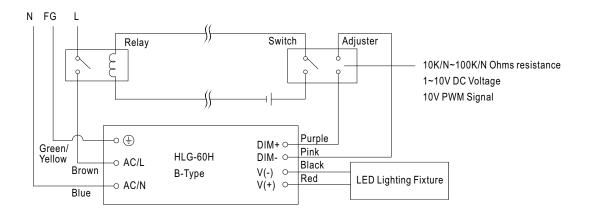






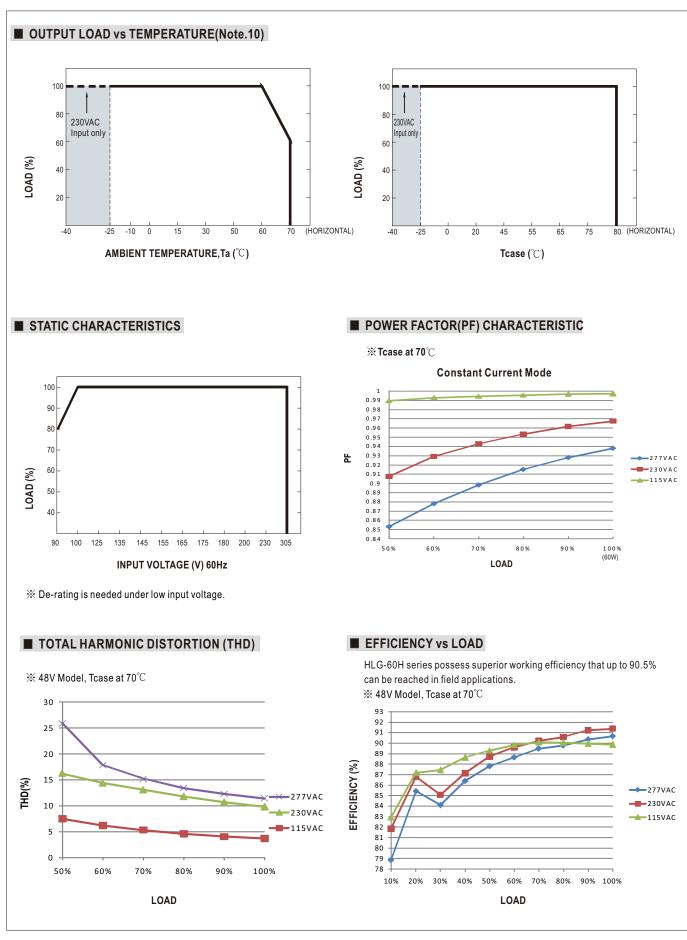
# HLG-60H series

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.

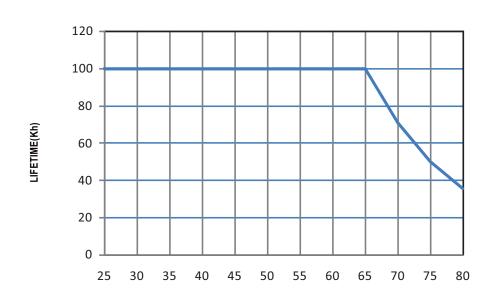






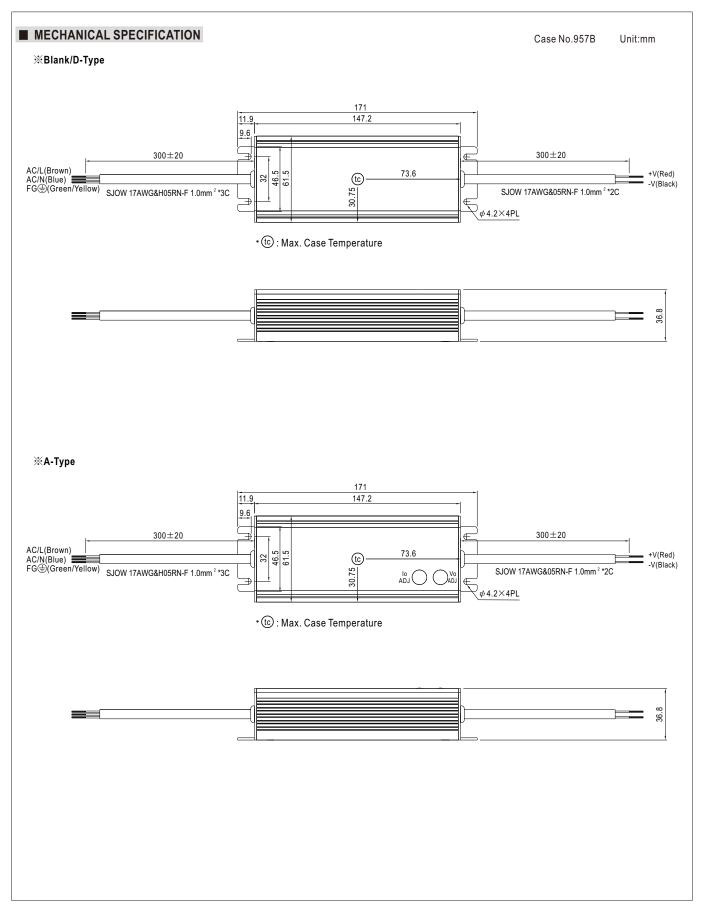
HLG-60H series

### LIFE TIME

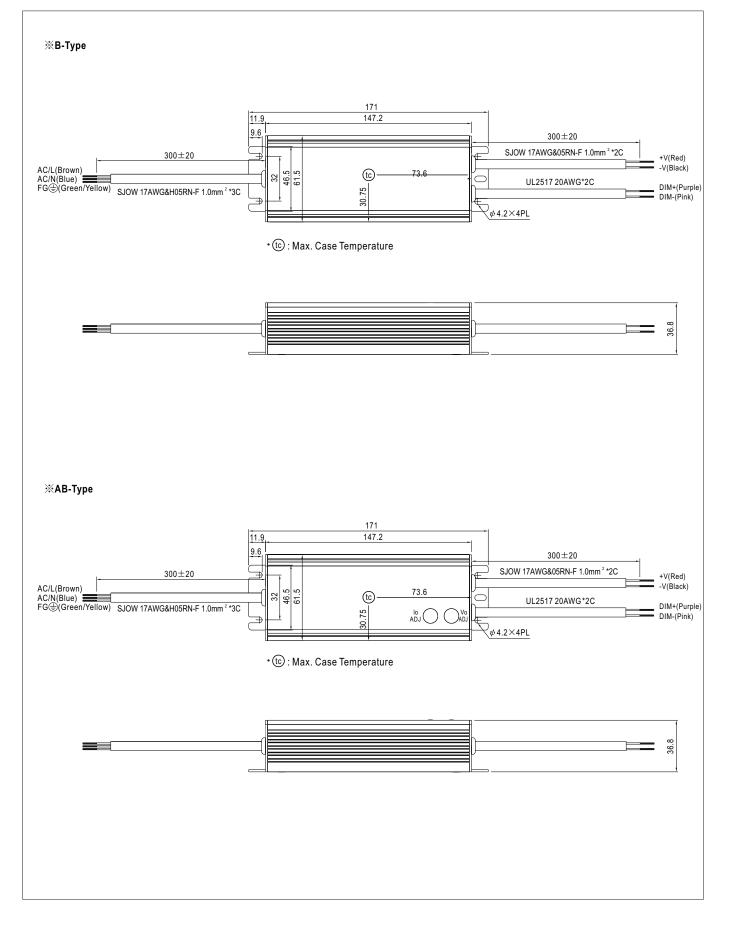


Tcase (  $^\circ\!\mathbb{C}$  )







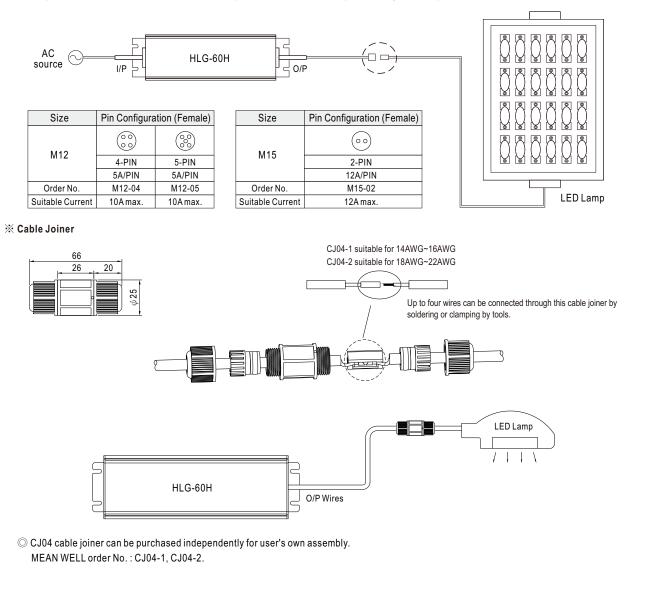




#### WATERPROOF CONNECTION

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

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