

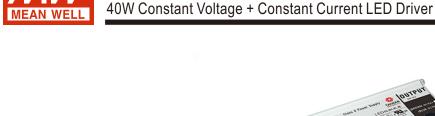
Наличие и актуальные цены на

HLG-40H-20B

https://www.mean-well.ru/store/HLG-40H-20B/

























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.

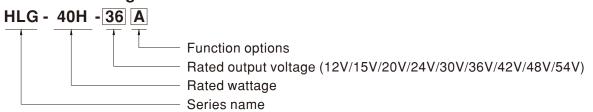
GTIN CODE

MW Search: https://www.meanwell.com/serviceGTIN.aspx

Description

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 ~ +80 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



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

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	
OUTPUT	CONSTANT CURRENT REGION Note.4	7.2 ~12V	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	150mVp-p	200mVp-p	200mVp-p	200mVp-p	200mVp-p	300mVp-p	300mVp-p	
		Adjustable for A/AB-Type only (via built-in potentiometer)									
	VOLTAGE ADJ. RANGE	10.8 ~ 13.5V	13.5 ~ 17V	17 ~ 22V	22 ~ 27V	27 ~ 33V	33 ~ 40V	40 ~ 46V	44 ~ 53V	49 ~ 58V	
		Adjustable fo	r A/AB-Type oi	nly (via built-ir	potentiomet	er)					
	CURRENT ADJ. RANGE	2 ~ 3.33A		1.2 ~ 2A	1 ~ 1.67A	0.8 ~ 1.34A	0.67 ~ 1.12A	0.58 ~ 0.96A	0.5 ~ 0.84A	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%	
		500ms,80ms/		l .		_ 0.070	_ 0.0 /0	_ = 0.070	_ 0.070	1 = 0.070	
	HOLD UP TIME (Typ.)	16ms / 115VA		01113,001113/200	0 1/10						
INPUT	TIOLD OF TIME (Typ.)			IVDC							
	VOLTAGE RANGE Note.5	90 ~ 305VAC 127 ~ 431VDC									
	EDECUENCY DANCE	(Please refer to "STATIC CHARACTERISTIC" section)									
	FREQUENCY RANGE	47 ~ 63Hz	\\\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \	5/000\/AO DE	> 0 00/077\/A	0.0 (
	POWER FACTOR (Typ.)			5/230VAC, PF		•					
		,		CTOR (PF) CH		,	_,				
	TOTAL HARMONIC DISTORTION		_		_	≧75% / 277VA	C)				
		(Please refer		RMONIC DIS	TORTION (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	C 0.24A	/ 230VAC	0.23A / 277V/	4C					
	INRUSH CURRENT(Typ.)	COLD START	50A(twidth=210,	μs measured a	t 50% Ipeak) at	230VAC; Per NI	EMA 410				
	MAX. No. of PSUs on 16A CIRCUIT BREAKER	12 units (circuit breaker of type B) / 20 units (circuit breaker of type C) at 230VAC									
	LEAKAGE CURRENT	<0.75mA / 277VAC									
		95 ~ 108%									
	OVER CURRENT	Constant current limiting, recovers automatically after fault condition is removed									
	SHORT CIRCUIT	Hiccup mode, recovers automatically after fault condition is removed									
PROTECTION		15 ~ 21V	18 ~ 24V	23 ~ 30V	28 ~ 35V	35 ~ 43V	41 ~ 49V	48 ~ 58V	54 ~ 65V	59 ~ 68V	
	OVER VOLTAGE		-	ower on to reco						100	
	OVER TEMPERATURE										
		Shut down o/p voltage, re-power on to recover Tcase= -40 ~ +80°C (Please refer to "OUTPUT LOAD vs TEMPERATURE" section)									
	WORKING TEMP.			e relei to OO	IFUI LOAD V	SIEWFERAIL	THE SECTION)				
	MAX. CASE TEMP.	Tcase= +80°C 20 ~ 95% RH non-condensing									
ENVIRONMENT	WORKING HUMIDITY	_		ig							
	STORAGE TEMP., HUMIDITY	-40 ~ +80°C,									
	TEMP. COEFFICIENT	±0.03%/°C (0~60°C)									
ŀ			10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes								
	VIBRATION					<u> </u>					
	VIBRATION SAFETY STANDARDS Note.8	UL8750(type GB19510.1,0	"HL"), CSA C2 3B19510.14,E	22.2 No. 250.0 AC TP TC 004	-08 , BS EN/E I,KC61347-1,	N/AS/NZS 613 KC61347-2-13	s 847-1,BS EN/E (except for AB BS EN/EN603	-type), IP65 or	r IP67 approve		
SΔFFTY &		UL8750(type GB19510.1,0 J61347-1,J6	"HL"), CSA C2 GB19510.14,E 1347-2-13 (ex	22.2 No. 250.0 AC TP TC 004 cept for B,AB	I-08 , BS EN/E I,KC61347-1, and D-type) ;	N/AS/NZS 613 KC61347-2-13 design refer to	347-1,BS EN/E (except for AB	-type), IP65 or	r IP67 approve		
	SAFETY STANDARDS Note.8	UL8750(type GB19510.1,0 J61347-1,J6 I/P-O/P:3.75	"HL"), CSA C2 GB19510.14,E 1347-2-13 (ex KVAC I/P-F0	22.2 No. 250.0 FAC TP TC 004 cept for B,AB a	-08 , BS EN/E I,KC61347-1, and D-type) ; /P-FG:1.5KV	N/AS/NZS 613 KC61347-2-13 design refer to	347-1,BS EN/E (except for AB	-type), IP65 or	r IP67 approve		
	SAFETY STANDARDS Note.8 WITHSTAND VOLTAGE	UL8750(type GB19510.1,C J61347-1,J6 I/P-O/P:3.75I I/P-O/P, I/P-F Compliance to	"HL"), CSA C2 GB19510.14,E 1347-2-13 (ex: KVAC I/P-FC GG, O/P-FG:10 DBS EN/EN550	22.2 No. 250.0 FAC TP TC 004 cept for B,AB a G:2KVAC O DOM Ohms / 50	-08 , BS EN/E I,KC61347-1, and D-type) ; /P-FG:1.5KVA IOVDC / 25°C/	N/AS/NZS 613 KC61347-2-13 design refer to AC 70% RH	347-1,BS EN/E (except for AB	-type), IP65 or 35-1(by reque	r IP67 approve st)	ed;	
SAFETY &	SAFETY STANDARDS Note.8 WITHSTAND VOLTAGE ISOLATION RESISTANCE	UL8750(type GB19510.1,C J61347-1,J6 I/P-O/P:3.75I I/P-O/P, I/P-F Compliance to EAC TP TC 02 Compliance to	"HL"), CSA C2 GB19510.14,E 1347-2-13 (ex KVAC I/P-FC G, O/P-FG:10 DBS EN/EN550 DBS EN/EN610	22.2 No. 250.0 AC TP TC 004 cept for B,AB and G:2KVAC On 100M Ohms / 50 115, BS EN/ENG 000-4-2,3,4,5,6	-08, BS EN/E I,KC61347-1, and D-type); /P-FG:1.5KVA IOVDC / 25°C/ 61000-3-2 Cla 6,8,11; BS EN/	N/AS/NZS 613 KC61347-2-13 design refer to AC 70% RH ss C (@ load≧ EN61547, BS B	847-1,BS EN/E (except for AB BS EN/EN603 60%); BS EN/E EN/EN55024,	-type), IP65 or 35-1(by reque	r IP67 approve st)	ed;	
	SAFETY STANDARDS Note.8 WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION Note.8 EMC IMMUNITY	UL8750(type GB19510.1,C J61347-1,J6 I/P-O/P:3.75I I/P-O/P, I/P-F Compliance to EAC TP TC 02 Compliance to light industry	"HL"), CSA C2 3B19510.14,E 1347-2-13 (ex KVAC I/P-F0 GG, O/P-FG:10 0 BS EN/EN550 0 bS EN/EN611 evel (surge im	22.2 No. 250.0 AC TPTC 004 cept for B,AB G:2KVAC O/ 00M Ohms / 50 115, BS EN/ENG 000-4-2,3,4,5,6 munity Line-Ea	-08, BS EN/E I, KC61347-1, and D-type); i /P-FG:1.5KV/ i0VDC / 25°C/ 61000-3-2 Cla 6,8,11; BS EN/ arth 4KV, Line-	N/AS/NZS 613 KC61347-2-13 design refer to C 70% RH ss C (@ load≧ EN61547, BS B Line 2KV), EAC	847-1,BS EN/E (except for AB BS EN/EN603 60%); BS EN/E EN/EN55024, CTPTC 020	-type), IP65 or 35-1(by reque	r IP67 approve st)	ed;	
EMC	SAFETY STANDARDS Note.8 WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION Note.8 EMC IMMUNITY MTBF	UL8750(type GB19510.1,C J61347-1,J6 I/P-O/P:3.75I I/P-O/P, I/P-F Compliance to EAC TP TC 02 Compliance to light industry 3395.8K hrs n	"HL"), CSA C2 BB19510.14,E 1347-2-13 (ex KVAC I/P-FC G, O/P-FG:10 D BS EN/EN550 D BS EN/EN611 level (surge im nin. Telcordi	22.2 No. 250.0 AC TP TC 004 cept for B,AB and G:2KVAC On 100M Ohms / 50 115, BS EN/ENG 000-4-2,3,4,5,6	-08, BS EN/E I, KC61347-1, and D-type); i /P-FG:1.5KV/ i0VDC / 25°C/ 61000-3-2 Cla 6,8,11; BS EN/ arth 4KV, Line-	N/AS/NZS 613 KC61347-2-13 design refer to C 70% RH ss C (@ load≧ EN61547, BS B Line 2KV), EAC	847-1,BS EN/E (except for AB BS EN/EN603 60%); BS EN/E EN/EN55024,	-type), IP65 or 35-1(by reque	r IP67 approve st)	ed;	
	SAFETY STANDARDS Note.8 WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION Note.8 EMC IMMUNITY	UL8750(type GB19510.1,C J61347-1,J6 I/P-O/P:3.75I I/P-O/P, I/P-F Compliance to EAC TP TC 02 Compliance to light industry if 3395.8K hrs n 171*61.5*36.8	"HL"), CSA C2 BB19510.14,E 1347-2-13 (ex KVAC I/P-FC G, O/P-FG:10 D BS EN/EN550 D BS EN/EN611 level (surge im nin. Telcordi	22.2 No. 250.0 AC TP TC 004 cept for B,AB a G:2KVAC O/ 10M Ohms / 50 115, BS EN/ENG 000-4-2,3,4,5,6 munity Line-Ea ia SR-332 (Bel	-08, BS EN/E I, KC61347-1, and D-type); i /P-FG:1.5KV/ i0VDC / 25°C/ 61000-3-2 Cla 6,8,11; BS EN/ arth 4KV, Line-	N/AS/NZS 613 KC61347-2-13 design refer to C 70% RH ss C (@ load≧ EN61547, BS B Line 2KV), EAC	847-1,BS EN/E (except for AB BS EN/EN603 60%); BS EN/E EN/EN55024, CTPTC 020	-type), IP65 or 35-1(by reque	r IP67 approve st)	ed;	

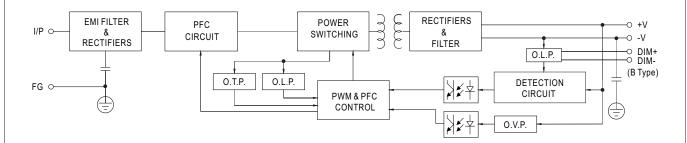
40W Constant Voltage + Constant Current LED Driver

- 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. (as available on https://www.meanwell.com//Upload/PDF/EMI_statement_en.pdf)
- 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 (to point (or TMP, per DLC), is about 75°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
- 13. For A/AB type need to consider build in using to comply with Type HL application.
- ※ Product Liability Disclaimer: For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx



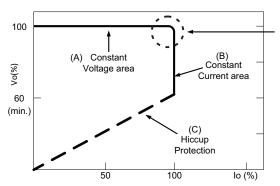
■ BLOCK DIAGRAM

Fosc: 100KHz



■ 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.



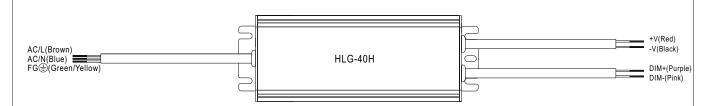
Typical output current normalized by rated current (%)

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.

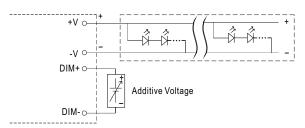


■ DIMMING OPERATION



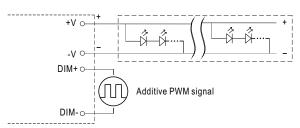
imes 3 in 1 dimming function (for B/AB-Type)

- 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.)
- O Applying additive 1 ~ 10VDC



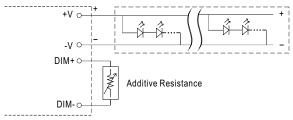
"DO NOT connect "DIM- to -V"

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

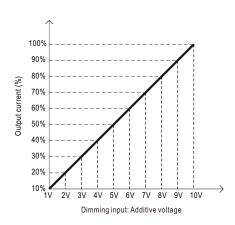


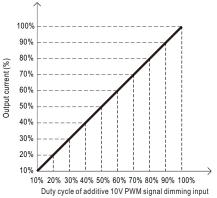
"DO NOT connect "DIM- to -V"

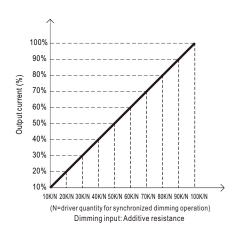
O Applying additive resistance:



"DO NOT connect "DIM- to -V"

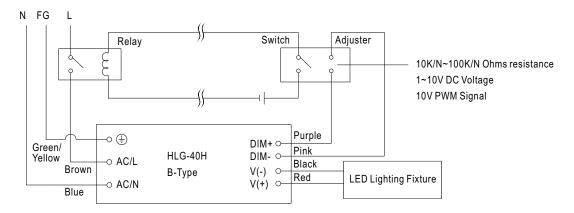






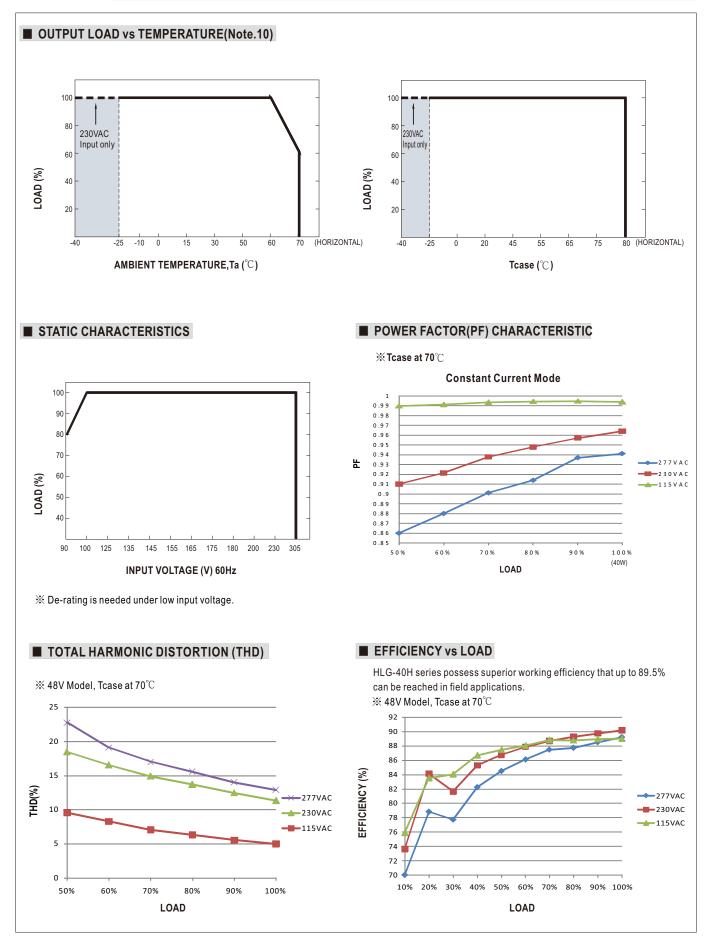


Note: In the case of turning the lighting fixture down to 0% brightness, please refer to the configuration as follow, or please contact MEAN WELL for other options.



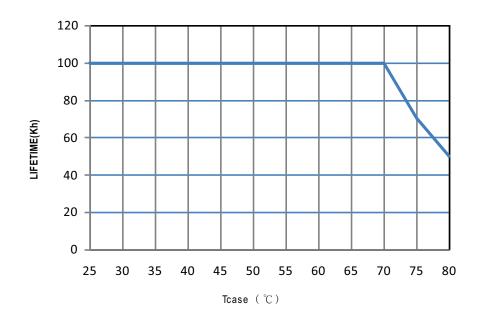
Using a switch and relay can turn ON/OFF the lighting fixture.



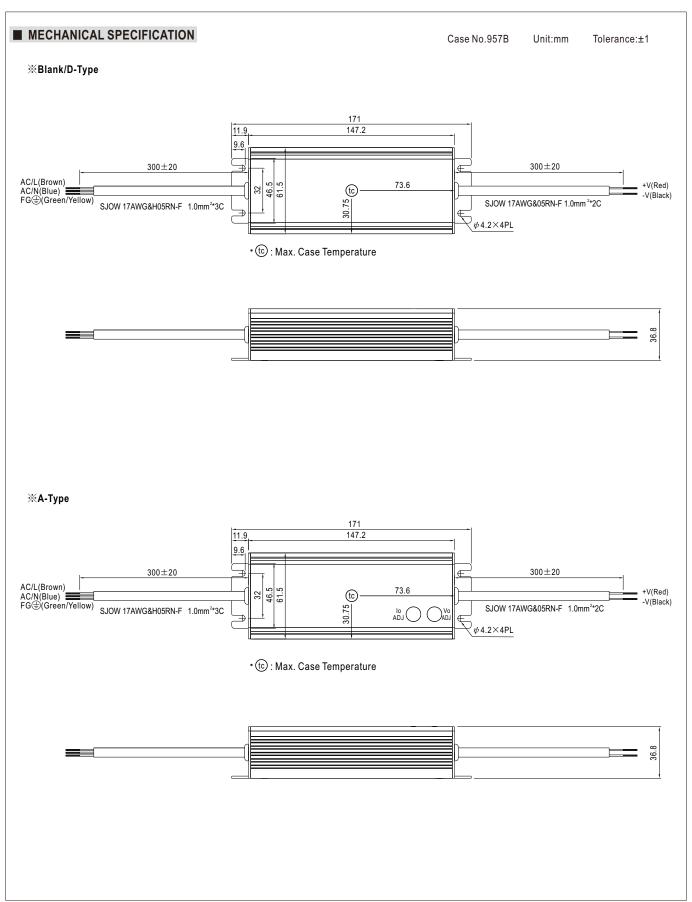




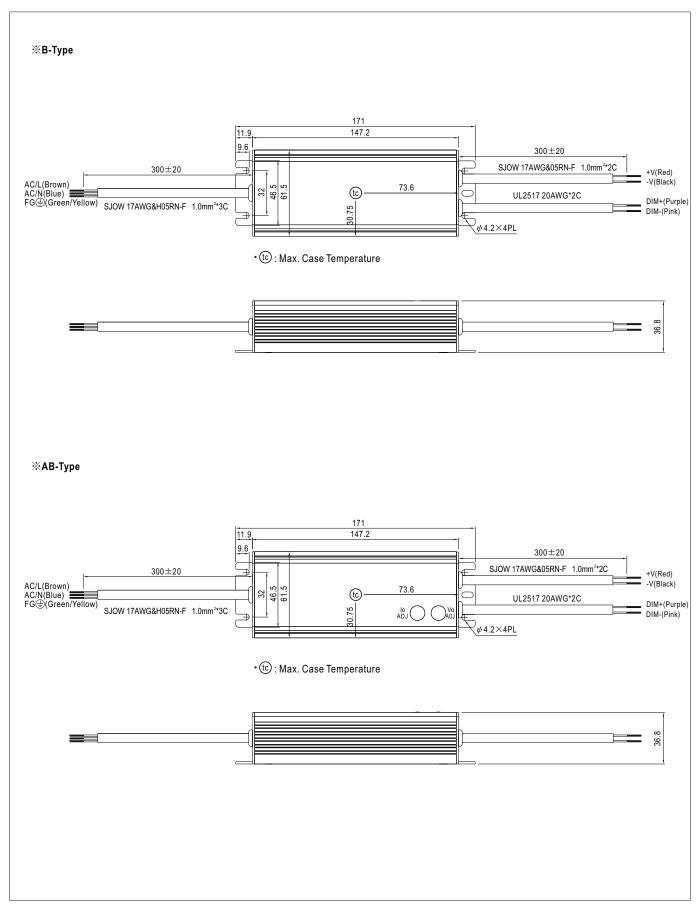
■ LIFE TIME









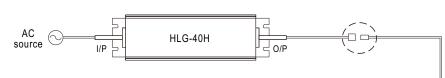




■ WATERPROOF CONNECTION

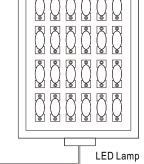
$\frak{\%}$ Waterproof connector

Waterproof connector can be assembled on the output cable of HLG-40H to operate in dry/wet/damp or outdoor environment.

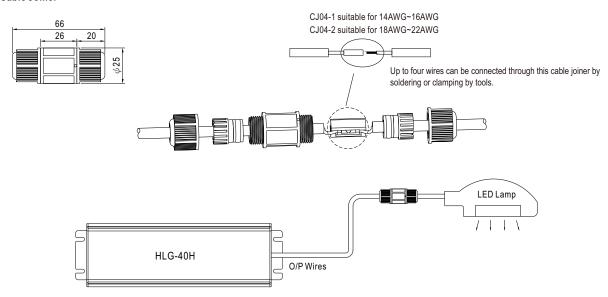


Size	Pin Configuration (Female)			
M12	000	000		
IVITZ	4-PIN	5-PIN		
	5A/PIN	5A/PIN		
Order No.	M12-04	M12-05		
Suitable Current	10A max.	10A max.		

Size	Pin Configuration (Female)		
M15	(o)		
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