

























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

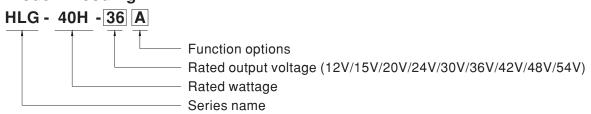
Applications

- 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-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 $-40^{\circ}\text{C} \sim +80^{\circ}\text{C}$ 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-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
D	IP67	Timer dimming function, contact MEAN WELL for details(safety pending).	By request



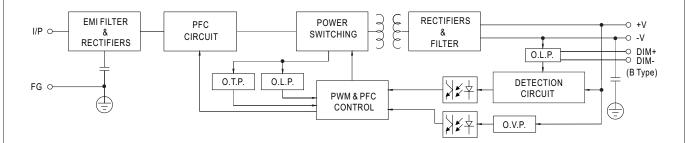
SPECIFICATION

-40H-30 HLG-40H-36 HLG-40H-42 HLG-40H-4	HLG-40H-54					
36V 42V 48V	54V					
30V 21.6 ~ 36V 25.2 ~ 42V 28.8 ~ 48	32.4 ~ 54V					
A 1.12A 0.96A 0.84A	0.75A					
W 40.32W 40.32W 40.32W	40.5W					
mVp-p 200mVp-p 200mVp-p 300mVp-	300mVp-p					
33V 33 ~ 40V 40 ~ 46V 44 ~ 53V	49 ~ 58V					
	1.0 001					
~ 1.34A 0.67 ~ 1.12A 0.58 ~ 0.96A 0.5 ~ 0.8	A 0.45 ~ 0.75					
.0% ±1.0% ±1.0% ±1.0%	±1.0%					
$\frac{1000}{5\%}$ $\frac{1000}{5\%}$ $\frac{1000}{5\%}$ $\frac{1000}{5\%}$ $\frac{1000}{5\%}$	±0.5%					
$\frac{1000}{1000}$	±0.5%					
370 20.070 20.070 20.070						
16ms / 115VAC, 230VAC						
90 ~ 305VAC 127 ~ 431VDC						
(Please refer to "STATIC CHARACTERISTIC" section)						
47 ~ 63Hz						
PF≥0.98/115VAC, PF≥0.95/230VAC, PF≥0.92/277VAC @ full load						
(Please refer to "POWER FACTOR (PF) CHARACTERISTIC" section)						
THD<20% (@ load≥60% / 115VAC,230VAC; @ load≥75% / 277VAC)						
ection)						
5% 88.5% 88.5% 89.5%	89.5%					
C; Per NEMA 410						
12 units (circuit breaker of type B) / 20 units (circuit breaker of type C) at 230VAC						
<0.75mA/277VAC						
OVER CURRENT 95 ~ 108%						
Constant current limiting, recovers automatically after fault condition is removed						
noved						
~ 43V 41 ~ 49V 48 ~ 58V 54 ~ 65V	59 ~ 68V					
Shut down o/p voltage, re-power on to recover						
IPERATURE" section)						
Tcase=+80°C						
20 ~ 95% RH non-condensing						
±0.03%/°C (0 ~ 60°C)						
10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes						
UL8750(type"HL"), CSA C22.2 No. 250.0-08 (except for 48V, 54V), TUV EN61347-1, EN61347-2-13 independent, IP65 or IP67 approved						
optional models for J61347-1, J61347-2-13; design refer to UL60950-1, TUV EN60950-1, EN60335-1						
I/P-O/P:3.75KVAC I/P-FG:2KVAC O/P-FG:1.5KVAC						
I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C / 70% RH						
•						
light industry level (surge immunity Line-Earth 4	/, Line-Line 2K					
ıin. MIL-HDBK-217F (25°C)						
ninated with a 0.1uf & 47uf parallel capacitor. RISTIC" sections for details. to increase of the set up time. uipment. Since EMC performance will be affecte the complete installation again. ptional model . Please contact MEAN WELL for						



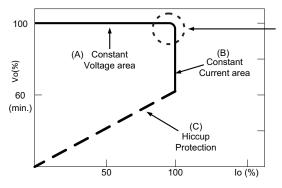
■ BLOCK DIAGRAM

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.



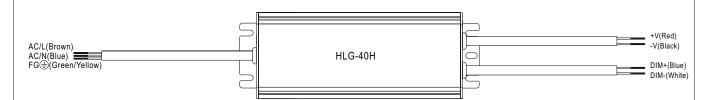
Typical output current normalized by rated current (%)

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.

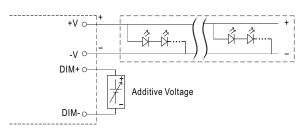


■ DIMMING OPERATION



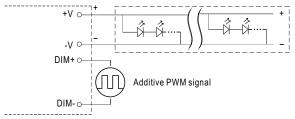
※ 3 in 1 dimming function (for B-Type)

- 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



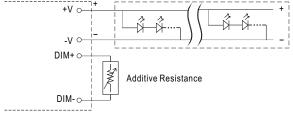
"DO NOT connect "DIM- to -V"

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

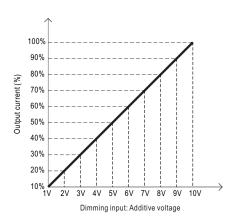


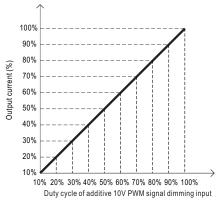
"DO NOT connect "DIM- to -V"

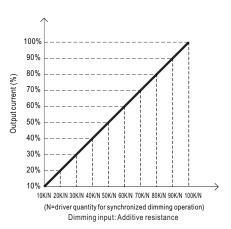
Applying additive resistance:



"DO NOT connect "DIM- to -V"

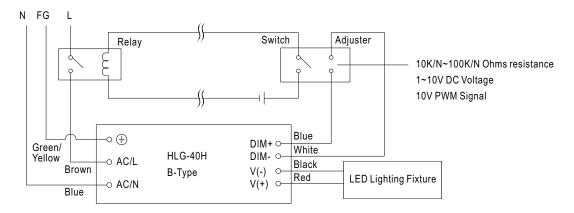






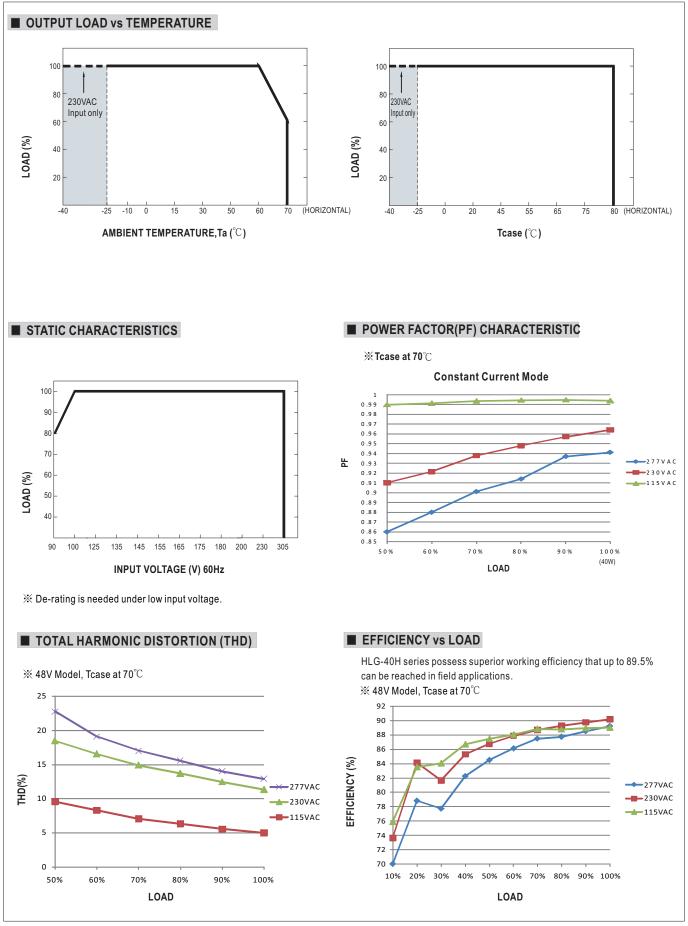


Note: In the case of turning the lighting fixture down to 0% brightness, please refer to the configuration as follow, or please contact MEAN WELL for other options.



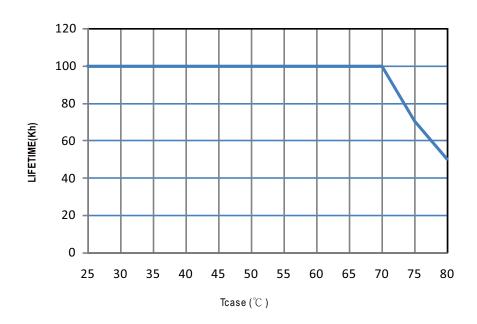
Using a switch and relay can turn ON/OFF the lighting fixture.



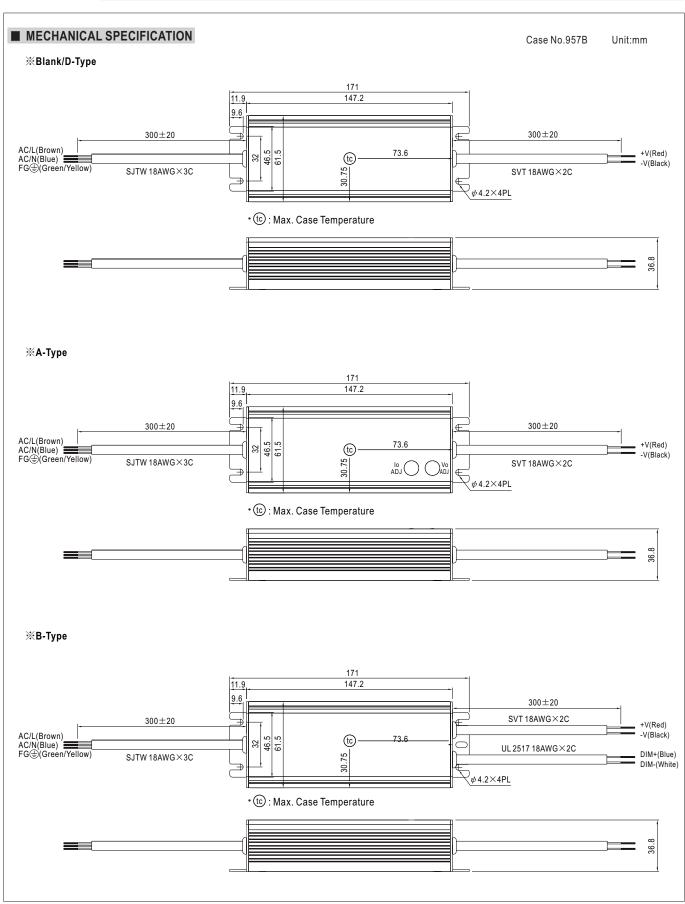




■ LIFETIME







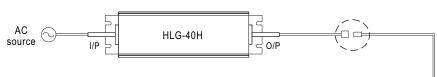
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■ WATERPROOF CONNECTION

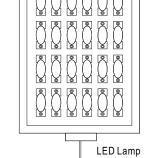
Waterproof connector

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

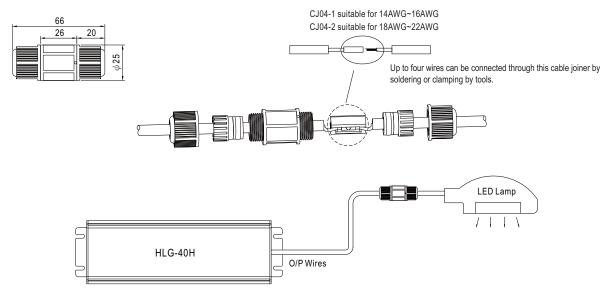


Size	Pin Configuration (Female)		
M12	000	000	
IVITZ	4-PIN	5-PIN	
	5A/PIN	5A/PIN	
Order No.	M12-04	M12-05	
Suitable Current	10A max.	10A max.	

Size	Pin Configuration (Female)	
M15	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/webnet/search/InstallationSearch.html

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