







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

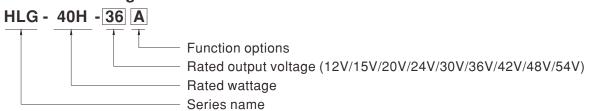
Applications

- 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



Туре	IP Level	Function
Blank	IP67	Io and Vo fixed
Α	IP65	Io and Vo adjustable through built-in potentiometer
В	IP67	3 in 1 dimming function (1~10VDC, 10V PWM signal and resistance)



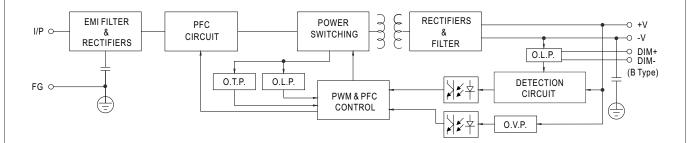
40W Single Output Switching Power Supply HLG-40H-xx ADM series

SPECIFICATION

10.8 ~ 13.5V Adjustable for 2 ~ 3.33A Note.3 ±2.5% ±0.5% ±2.0% Note.6 500ms,80ms 16ms / 115VA Note.5 90 ~ 305VAC (Please refer 47 ~ 63Hz PF≧0.98/11:	or A-Type only (1.6 ~ 2.67A ±2.0% ±0.5% ±1.5% //115VAC 500 AC, 230VAC 127 ~ 431 to "STATIC CH.	17 ~ 22V via built-in poi 1.2 ~ 2A ±1.0% ±0.5% ±1.0% Oms,80ms/236 VDC ARACTERISTI		30V 18 ~ 30V 1.34A 40.2W 200mVp-p 27 ~ 33V 0.8 ~ 1.34A ±1.0% ±0.5%	36V 21.6 ~ 36V 1.12A 40.32W 200mVp-p 33 ~ 40V 0.67 ~ 1.12A ±1.0% ±0.5%	42V 25.2 ~ 42V 0.96A 40.32W 200mVp-p 40 ~ 46V 0.58 ~ 0.96A ±1.0% ±0.5%	28.8 ~ 48V 0.84A 40.32W 300mVp-p 44 ~ 53V 0.5 ~ 0.84A ±1.0% ±0.5%	54V 32.4 ~ 54V 0.75A 40.5W 300mVp-p 49 ~ 58V 0.45 ~ 0.75A ±1.0% ±0.5%							
3.33A 39.96W Note.2 150mVp-p Adjustable for 10.8 ~ 13.5V E Adjustable for 2 ~ 3.33A Note.3 ±2.5% ±0.5% ±2.0% Note.6 500ms,80ms 16ms / 115VA Note.5 90 ~ 305VAC (Please refer 47 ~ 63Hz PF≧0.98/11: (Please refer THD	2.67A 40.05W 150mVp-p or A-Type only (13.5 ~ 17V or A-Type only (1.6 ~ 2.67A ±2.0% ±0.5% ±1.5% //115VAC 500 IC, 230VAC 127 ~ 431 to "STATIC CH.	2A 40W 150mVp-p via built-in poi 17 ~ 22V via built-in poi 1.2 ~ 2A ±1.0% ±0.5% ±1.0% Oms,80ms/230 VDC ARACTERISTI	1.67A 40.08W 200mVp-p tentiometer) 22 ~ 27V tentiometer) 1 ~ 1.67A ±1.0% ±0.5% 0VAC	1.34A 40.2W 200mVp-p 27 ~ 33V 0.8 ~ 1.34A ±1.0% ±0.5%	1.12A 40.32W 200mVp-p 33 ~ 40V 0.67 ~ 1.12A ±1.0% ±0.5%	0.96A 40.32W 200mVp-p 40 ~ 46V 0.58 ~ 0.96A ±1.0% ±0.5%	0.84A 40.32W 300mVp-p 44 ~ 53V 0.5 ~ 0.84A ±1.0% ±0.5%	0.75A 40.5W 300mVp-p 49 ~ 58V 0.45 ~ 0.75A ±1.0% ±0.5%							
39.96W 39.96W Adjustable for 10.8 ~ 13.5V E Adjustable for 2 ~ 3.33A Note.3 ±2.5% ±0.5% ±2.0% Note.6 500ms,80ms 16ms / 115VA Note.5 90 ~ 305VAC (Please refer 47 ~ 63Hz PF≧0.98/11: (Please refer	40.05W 150mVp-p or A-Type only (13.5 ~ 17V or A-Type only (1.6 ~ 2.67A ±2.0% ±0.5% ±1.5% //115VAC 500 IC, 230VAC 127 ~ 431 to "STATIC CH.	40W 150mVp-p via built-in pol 17 ~ 22V via built-in pol 1.2 ~ 2A ±1.0% ±0.5% ±1.0% Oms,80ms/230 VDC ARACTERISTI	$\begin{array}{c} 40.08W\\ 200mVp\text{-p}\\ \text{tentiometer)}\\ 22\sim27V\\ \text{tentiometer)}\\ 1\sim1.67A\\ \pm1.0\%\\ \pm0.5\%\\ \pm0.5\%\\ \text{OVAC} \end{array}$	40.2W 200mVp-p 27 ~ 33V 0.8 ~ 1.34A ±1.0% ±0.5%	40.32W 200mVp-p 33 ~ 40V 0.67 ~ 1.12A ±1.0% ±0.5%	40.32W 200mVp-p 40~46V 0.58~0.96A ±1.0% ±0.5%	40.32W 300mVp-p 44 ~ 53V 0.5 ~ 0.84A ±1.0% ±0.5%	40.5W 300mVp-p 49 ~ 58V 0.45 ~ 0.75 € ±1.0% ±0.5%							
39.96W 39.96W Adjustable for 10.8 ~ 13.5V E Adjustable for 2 ~ 3.33A Note.3 ±2.5% ±0.5% ±2.0% Note.6 500ms,80ms 16ms / 115VA Note.5 90 ~ 305VAC (Please refer 47 ~ 63Hz PF≧0.98/11: (Please refer	40.05W 150mVp-p or A-Type only (13.5 ~ 17V or A-Type only (1.6 ~ 2.67A ±2.0% ±0.5% ±1.5% //115VAC 500 IC, 230VAC 127 ~ 431 to "STATIC CH.	40W 150mVp-p via built-in pol 17 ~ 22V via built-in pol 1.2 ~ 2A ±1.0% ±0.5% ±1.0% Oms,80ms/230 VDC ARACTERISTI	$\begin{array}{c} 40.08W\\ 200mVp\text{-p}\\ \text{tentiometer)}\\ 22\sim27V\\ \text{tentiometer)}\\ 1\sim1.67A\\ \pm1.0\%\\ \pm0.5\%\\ \pm0.5\%\\ \text{OVAC} \end{array}$	40.2W 200mVp-p 27 ~ 33V 0.8 ~ 1.34A ±1.0% ±0.5%	40.32W 200mVp-p 33 ~ 40V 0.67 ~ 1.12A ±1.0% ±0.5%	40.32W 200mVp-p 40~46V 0.58~0.96A ±1.0% ±0.5%	40.32W 300mVp-p 44 ~ 53V 0.5 ~ 0.84A ±1.0% ±0.5%	40.5W 300mVp-p 49 ~ 58V 0.45 ~ 0.75 € ±1.0% ±0.5%							
Note.2 150mVp-p Adjustable for 10.8 ~ 13.5V E	150mVp-p or A-Type only (13.5 ~ 17V or A-Type only (1.6 ~ 2.67A ±2.0% ±0.5% ±1.5% //115VAC 500 CC, 230VAC 127 ~ 431 to "STATIC CH.	150mVp-p via built-in poi 17 ~ 22V via built-in poi 1.2 ~ 2A ±1.0% ±0.5% ±1.0% 0ms,80ms/230 VDC ARACTERISTI		200mVp-p 27 ~ 33V 0.8 ~ 1.34A ±1.0% ±0.5%	200mVp-p 33 ~ 40V 0.67 ~ 1.12A ±1.0% ±0.5%	200mVp-p 40 ~ 46V 0.58 ~ 0.96A ±1.0% ±0.5%	300mVp-p 44 ~ 53V 0.5 ~ 0.84A ±1.0% ±0.5%	300mVp-p 49 ~ 58V 0.45 ~ 0.75A ±1.0% ±0.5%							
Adjustable for 10.8 ~ 13.5V E	or A-Type only (13.5 ~ 17V or A-Type only (1.6 ~ 2.67A ±2.0% ±0.5% ±1.5% //115VAC 500 AC, 230VAC 127 ~ 431 to "STATIC CH.	via built-in pot 17 ~ 22V via built-in pot 1.2 ~ 2A ±1.0% ±0.5% ±1.0% Oms,80ms/230 VDC ARACTERISTI	tentiometer) $22 \sim 27V$ tentiometer) $1 \sim 1.67A$ $\pm 1.0\%$ $\pm 0.5\%$ $\pm 0.5\%$ $0VAC$	27 ~ 33V 0.8 ~ 1.34A ±1.0% ±0.5%	33 ~ 40V 0.67 ~ 1.12A ±1.0% ±0.5%	40 ~ 46V 0.58 ~ 0.96A ±1.0% ±0.5%	0.5 ~ 0.84A ±1.0% ±0.5%	49 ~ 58V 0.45 ~ 0.75/ ±1.0% ±0.5%							
10.8 ~ 13.5V Adjustable for 2 ~ 3.33A Note.3 ±2.5% ±0.5% ±2.0% Note.6 500ms,80ms 16ms / 115VA Note.5 90 ~ 305VAC (Please refer 47 ~ 63Hz PF ≥ 0.98/11: (Please refer THD< 20% (13.5 ~ 17V or A-Type only (1.6 ~ 2.67A ±2.0% ±0.5% ±1.5% //115VAC 500 AC, 230VAC 127 ~ 431 to "STATIC CH. 5VAC, PF≧0.9	17 ~ 22V via built-in poi 1.2 ~ 2A ±1.0% ±0.5% ±1.0% Oms,80ms/236 VDC ARACTERISTI		0.8 ~ 1.34A ±1.0% ±0.5%	0.67 ~ 1.12A ±1.0% ±0.5%	0.58 ~ 0.96A ±1.0% ±0.5%	0.5 ~ 0.84A ±1.0% ±0.5%	0.45 ~ 0.75 ±1.0% ±0.5%							
Adjustable for 2 ~ 3.33A Note.3 ±2.5% ±0.5% ±2.0% Note.6 500ms,80ms 16ms / 115VA Note.5 90 ~ 305VAC (Please refer 47 ~ 63Hz PF ≥ 0.98/11: (Please refer (Please refer (Please refer (Please refer) (Please refer)	or A-Type only (1.6 ~ 2.67A ±2.0% ±0.5% ±1.5% //115VAC 500 AC, 230VAC 127 ~ 431 to "STATIC CH.	via built-in pot 1.2 ~ 2A ±1.0% ±0.5% ±1.0% Oms,80ms/230 VDC ARACTERISTI	tentiometer) 1 ~ 1.67A ±1.0% ±0.5% ±0.5% 0VAC	0.8 ~ 1.34A ±1.0% ±0.5%	0.67 ~ 1.12A ±1.0% ±0.5%	0.58 ~ 0.96A ±1.0% ±0.5%	0.5 ~ 0.84A ±1.0% ±0.5%	0.45 ~ 0.75 ±1.0% ±0.5%							
2 ~ 3.33A Note.3 ±2.5% ±0.5% ±0.5% ±2.0% Note.6 500ms,80ms 16ms / 115VA Note.5 90 ~ 305VAC (Please refer 47 ~ 63Hz PF≧0.98/11: (Please refer (Please refer THD< 20% (1.6 ~ 2.67A ±2.0% ±0.5% ±1.5% //115VAC 500 AC, 230VAC 127 ~ 431 to "STATIC CH.	1.2~2A ±1.0% ±0.5% ±1.0% 0ms,80ms/230 VDC ARACTERISTI	1~1.67A ±1.0% ±0.5% ±0.5%	±1.0% ±0.5%	±1.0% ±0.5%	±1.0% ±0.5%	±1.0% ±0.5%	±1.0% ±0.5%							
Note.3 ±2.5% ±0.5% ±2.0% Note.6 500ms,80ms 16ms / 115VA Note.5 90 ~ 305VAC (Please refer 47 ~ 63Hz PF≧0.98/11: (Please refer THD< 20% (±2.0% ±0.5% ±1.5% //115VAC 500 AC, 230VAC 127 ~ 431 to "STATIC CH.	±1.0% ±0.5% ±1.0% 0ms,80ms/230 VDC ARACTERISTI	±1.0% ±0.5% ±0.5%	±1.0% ±0.5%	±1.0% ±0.5%	±1.0% ±0.5%	±1.0% ±0.5%	±1.0% ±0.5%							
$\pm 0.5\%$ $\pm 2.0\%$ Note.6 500ms,80ms $16\text{ms} / 115\text{VA}$ Note.5 90 ~ 305VAC (Please refer $47 \sim 63\text{Hz}$ PF ≥ 0.98/11: (Please refer $47 \sim 100$ THD<	±0.5% ±1.5% //115VAC 500 IC, 230VAC 127 ~ 431 to "STATIC CH.	±0.5% ±1.0% 0ms,80ms/230 VDC ARACTERISTI	±0.5% ±0.5% 0VAC	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%							
±2.0% Note.6 500ms,80ms 16ms / 115VA Note.5 90 ~ 305VAC (Please refer 47 ~ 63Hz PF≧0.98/11: (Please refer THD< 20% (±1.5% //115VAC 500 IC, 230VAC 127 ~ 431 to "STATIC CH.	±1.0% Oms,80ms/230 VDC ARACTERISTI	±0.5%												
Note.6 500ms,80ms 16ms / 115VA Note.5 90 ~ 305VAC (Please refer 47 ~ 63Hz PF≧0.98/11: (Please refer THD< 20% (/115VAC 500 AC, 230VAC 127 ~ 431 to "STATIC CH. 5VAC, PF≧0.9	Oms,80ms/230 VDC ARACTERISTI	OVAC	±0.5%	±0.5%	±0.5%	±0.5%	10.50/							
16ms / 115VA Note.5 90 ~ 305VAC (Please refer 47 ~ 63Hz PF≧0.98/11: (Please refer THD< 20% (C, 230VAC 127 ~ 431 to "STATIC CH. 5VAC, PF≧0.9	VDC ARACTERISTI						$\pm 0.5\%$							
Note.5 90 ~ 305VAC (Please refer 47 ~ 63Hz PF≧0.98/11: (Please refer THD< 20% (127 ~ 431 to "STATIC CH. 5VAC, PF≧0.9	ARACTERISTI	IC" section)				500ms,80ms/115VAC 500ms,80ms/230VAC								
Note.5 (Please refer 47 ~ 63Hz PF ≥ 0.98/11: (Please refer THD< 20% (to "STATIC CH. 5VAC, PF≧0.9	ARACTERISTI	IC" section)			16ms / 115VAC, 230VAC									
(Please refer 47 ~ 63Hz PF≧0.98/11: (Please refer THD< 20% (to "STATIC CH. 5VAC, PF≧0.9	ARACTERISTI	IC" section)		90 ~ 305VAC 127 ~ 431VDC										
47 ~ 63Hz PF≧0.98/11: (Please refer THD< 20% (5VAC, PF≧0.9		(Please refer to "STATIC CHARACTERISTIC" section)												
PF≧0.98/11: (Please refer THD< 20% (-												
(Please refer			>0.02/277\/A	C @ full load											
THD< 20% (to "POWER FA	PF≥0.98/115VAC, PF≥0.95/230VAC, PF≥0.92/277VAC @ full load (Please refer to "POWER FACTOR (PF) CHARACTERISTIC" section)													
ORTION ∣ `	01 12000/	. ,		,	0)										
(Please refe	•				C)										
	r to "TOTAL HA	RMONIC DIS	TORTION (TI	HD)" section)											
86.5%	86.5%	88%	88%	88.5%	88.5%	88.5%	89.5%	89.5%							
0.43A / 115V	AC 0.24A	/ 230VAC	0.23A / 277V	AC											
o.) COLD START	Γ 50A(twidth=210,	us measured at	t 50% Ipeak) at	230VAC; Per NI	EMA 410										
6A 12 units (circ	12 units (circuit breaker of type B) / 20 units (circuit breaker of type C) at 230VAC														
<0.75mA / 27	77\/A.C														
	95 ~ 108%														
Hiccup mode	, recovers auto	matically after	fault condition	is removed											
15 ~ 21V	18 ~ 24V	23 ~ 30V	28 ~ 35V	35 ~ 43V	41 ~ 49V	48 ~ 58V	54 ~ 65V	59 ~ 68V							
Shut down o/	p voltage, re-po	wer on to reco	over												
Shut down o/	Shut down o/p voltage, re-power on to recover														
Tcase= -40 ~	Tcase= -40 ~ +80 °C (Please refer to "OUTPUT LOAD vs TEMPERATURE" section)														
Tcase= +80°	Tcase=+80°C														
20 ~ 95% RH															
0															
	10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes														
Note 8 UL8750(type'	UL8750(type"HL"), CSA C22.2 No. 250.0-08 (except for 48V, 54V), TUV EN61347-1, EN61347-2-13 independent, IP65 or IP67 approve														
optional mod	optional models for J61347-1, J61347-2-13; design refer to UL60950-1, TUV EN60950-1, EN60335-1														
I/P-O/P:3.75	I/P-O/P:3.75KVAC I/P-FG:2KVAC O/P-FG:1.5KVAC														
D VOLTAGE I/P-O/P:3.75KVAC I/P-FG:2KVAC O/P-FG:1.5KVAC I RESISTANCE I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C / 70% RH															
Note.8 Compliance															
				, .		ne immunity Liu	ne-Farth 4KV I	ine-l ine 2K							
							=								
		a ort-552 (bell	10016), 000.01	CIII 3 IIIIIII. IVII	L-HDDK-ZIII	(200)									
NOTE I ' '															
2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.															
3. Tolerance : includes set up tolerance, line regulation and load regulation.															
4. Please refer to "DRIVING METHODS OF LED MODULE". 5. Do retired may be peeded under law input voltages. Please refer to "STATIC CHARACTERISTIC" continue for details.															
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.															
rertified for CCC(GB19510.14, GB19510.1, GB17743 and GB17625.1) is an optional model . Please contact MEAN WELL for details.															
ected to the mains.															
	-				riy (tc) point (or	r IMP, per DL	U), is about 75	or less.							
T r s le n	95 ~ 108% Constant cur Hiccup mode 15 ~ 21V Shut down o/ Shut down o/ Tcase= -40 ~ Tcase= +80°C, ±0.03%/°C 10 ~ 500Hz, ! Note.8 I/P-O/P:3.75 ICE I/P-O/P:3.75 ICE I/P-O/P, I/P-I Note.8 Compliance to Compliance to Compliance to 1131.9K hrs in 171*61.5*36. 0.85Kg; 16pc is set up tolerance, lines is weatured at 20MHz consisted at 20MHz consisted and in the second	Constant current limiting, red Hiccup mode, recovers auto 15 ~ 21V	Constant current limiting, recovers automathic constant current limiting, recovers automathic process. Shut down o/p voltage, re-power on to recovers. Tcase=-40~+80°C (Please refer to "OU" Tcase=+80°C 20~95% RH non-condensing 40.03%/°C (0~60°C) 10~500Hz, 5G 12min./1cycle, period for 10~500Hz, 1/P-FG:2KVAC 0.000Hz, 1/P-FG:2K	Constant current limiting, recovers automatically after fault condition 15 ~ 21V 18 ~ 24V 23 ~ 30V 28 ~ 35V Shut down o/p voltage, re-power on to recover Shut down o/p voltage, re-power on to recover Tcase= -40 ~ +80°C (Please refer to "OUTPUT LOAD voltage to the latest ErP regulation for lighting fixtures, this LED driver ains. HIDITY -40 ~ +80°C, 10 ~ 95% RH ±0.03%/°C (0 ~ 60°C) 10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each a UL8750(type"HL"), CSA C22.2 No. 250.0-08 (except for 48V optional models for J61347-1, J61347-2-13; design refered to the latest except for 48V optional models for J61347-1, J61347-2-13; design refered to the latest except for 48V optional models for J61347-1, J61347-2-13; design refered to the latest except for 48V optional models for J61347-1, J61347-2-13; design refered to the latest except for 48V optional models for J61347-1, J61347-2-13; design refered to the latest except for 48V optional models for J61347-1, J61347-2-13; design refered to the latest except for 48V optional models for J61347-1, J61347-2-13; design refered to the latest except for 48V optional models for J61347-1, J61347-2-13; design refered to the latest except for 48V optional models for J61347-1, J61347-2-13; design refered to the latest except for la	Shut down o/p voltage, re-power on to recover Shut down o/p voltage, re-power on to recover Shut down o/p voltage, re-power on to recover Tcase= -40 ~ +80°C (Please refer to "OUTPUT LOAD vs TEMPERATE Tcase= +80°C (Please refer to "OUTPUT LOAD vs TEMPERATE Tcase= +80°C (Please refer to "OUTPUT LOAD vs TEMPERATE Tcase= +80°C (Please refer to "OUTPUT LOAD vs TEMPERATE Tcase= +80°C (Please refer to "OUTPUT LOAD vs TEMPERATE Tcase= +80°C (10 ~ 95% RH	95 ~ 108% Constant current limiting, recovers automatically after fault condition is removed Hiccup mode, recovers automatically after fault condition is removed 15 ~ 21V 18 ~ 24V 23 ~ 30V 28 ~ 35V 35 ~ 43V 41 ~ 49V Shut down o/p voltage, re-power on to recover Shut down o/p voltage, re-power on to recover Tcase= -40 ~ +80°C (Please refer to "OUTPUT LOAD vs TEMPERATURE" section) Tcase= +80°C 20 ~ 95% RH non-condensing MIDITY	95 ~ 108% Constant current limiting, recovers automatically after fault condition is removed Hiccup mode, recovers automatically after fault condition is removed 15 ~ 21V 18 ~ 24V 23 ~ 30V 28 ~ 35V 35 ~ 43V 41 ~ 49V 48 ~ 58V Shut down o/p voltage, re-power on to recover Shut down o/p voltage, re-power on to recover Tcase= -40 ~ +80°C (Please refer to "OUTPUT LOAD vs TEMPERATURE" section) Tcase= +80°C 20 ~ 95% RH non-condensing ### ### ### ### ### ### ### ### ### #	95 ~ 108% Constant current limiting, recovers automatically after fault condition is removed Hiccup mode, recovers automatically after fault condition is removed 15 ~ 21V 18 ~ 24V 23 ~ 30V 28 ~ 35V 35 ~ 43V 41 ~ 49V 48 ~ 58V 54 ~ 65V Shut down o/p voltage, re-power on to recover Shut down o/p voltage, re-power on to recover Tcase= -40 ~ +80°C (Please refer to "OUTPUT LOAD vs TEMPERATURE" section) Tcase= +80°C 20 ~ 95% RH non-condensing #IDITY -40 ~ +80°C, 10 ~ 95% RH ±0.03%/°C (0 ~ 60°C) 10 ~ 500Hz, 56 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 1 optional models for J61347-1, J61347-2-13 ; design refer to UL60950-1, TUV EN60950-1, EN60335-1 E I/P-0/P, I/P-FG, 0/P-FG:100M Ohms / 500VDC / 25°C/70% RH One.8 Compliance to EN5015, EN61000-3-2 Class C (@ load ≥60%); EN61000-3-3 Compliance to EN61000-4-2,3,4,5,6,8,11; EN61547, EN55024, light industry level (surge immunity Line-Earth 4KV, L 1131.9K hrs min. Telcordia SR-332 (Bellcore); 336.5K hrs min. MIL-HDBK-217F (25°C) 171*61.5*36.8mm (L*W*H) 0.85Kg; 16pcs/11.3Kg I specially mentioned are measured at 230VAC input, rated current and 25°C of ambient temperature. measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. set up tolerance, line regulation and load regulation. IIVING METHODS OF LED MODULE". eeded under low input voltages. Please refer to "STATIC CHARACTERISTIC" sections for details. eleed as a component that will be operated in combination with final equipment. Since EMC performance will be affected by n, the final equipment manufacturers must re-qualify EMC Directive on the complete installation again. for CCC(GB19510.14, GB19510.1, GB17743 and GB17625.1) is an optional model . Please contact MEAN WELL for details. the typical life expectancy of >62,000 hours of operation when Tcase, particularly (ⓑ point (or TMP, per DLC), is ab							

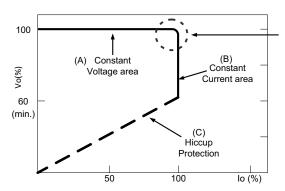
■ BLOCK DIAGRAM

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.



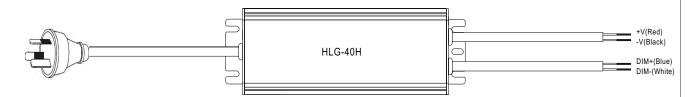
Typical output current normalized by rated current (%)

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



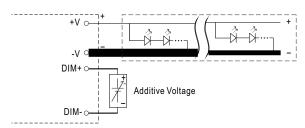
imes 3 in 1 dimming function (for B-Type)

- · 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.

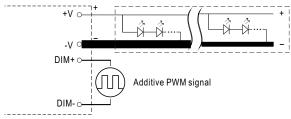
Dimming source current from power supply: $100\mu A$ (typ.)

O Applying additive 1 ~ 10VDC



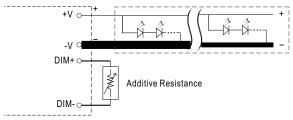
"DO NOT connect "DIM- to -V"

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

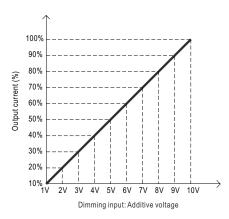


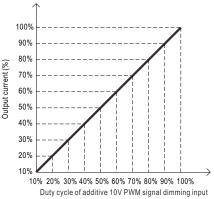
"DO NOT connect "DIM- to -V"

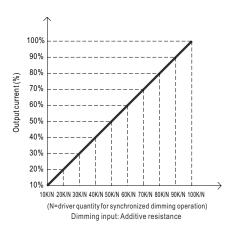
Applying additive resistance:



"DO NOT connect "DIM- to -V"



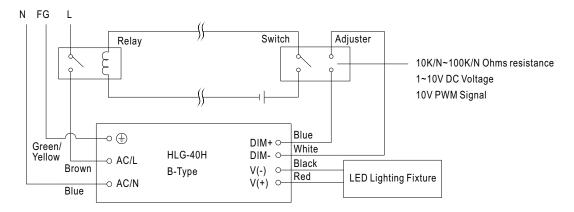






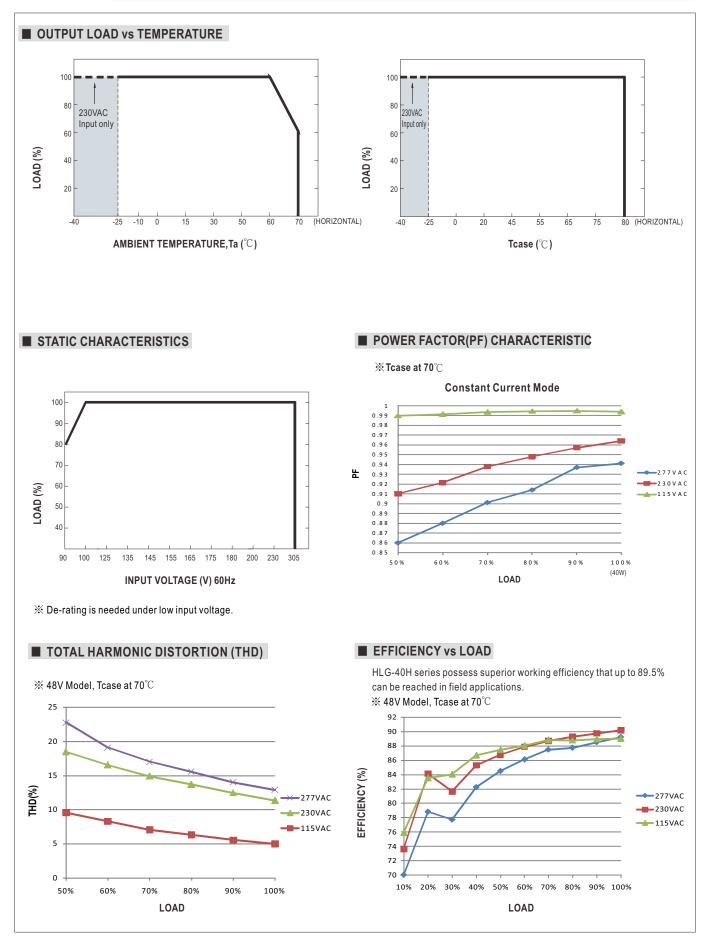
40W Single Output Switching Power Supply HLG-40H-xx ADM series

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.



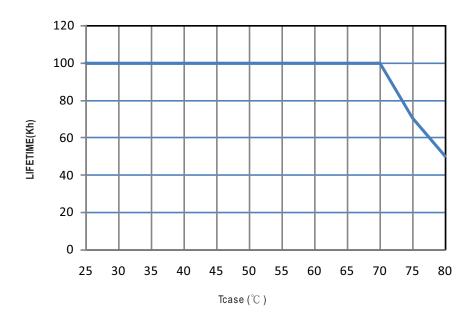
Using a switch and relay can turn ON/OFF the lighting fixture.





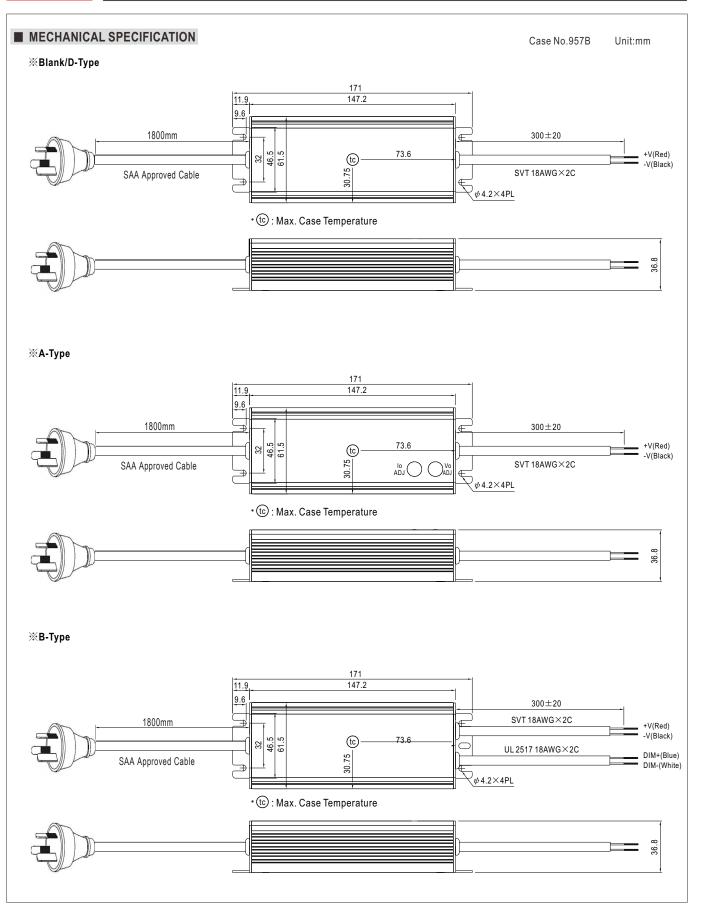


■ LIFETIME





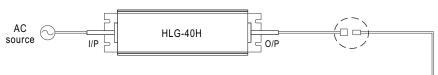
40W Single Output Switching Power Supply HLG-40H-xx ADM series



■ WATERPROOF CONNECTION

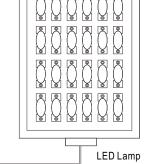
$\frak{\%}$ Waterproof connector

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

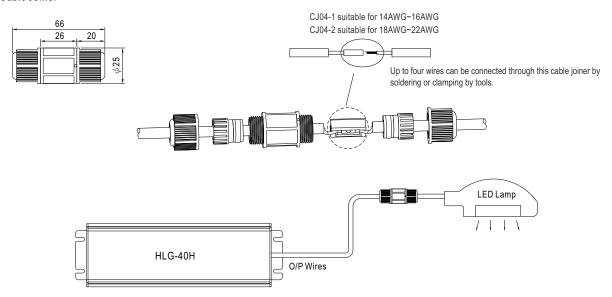


Size	Pin Configuration (Female)				
M12	000	000			
IVITZ	4-PIN	5-PIN			
	5A/PIN	5A/PIN			
Order No.	M12-04	M12-05			
Suitable Current	10A max.	10A max.			

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