







■ 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

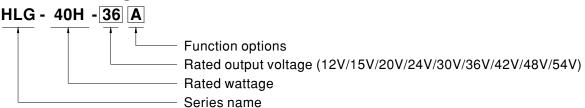
Applications

- · 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°C ~ +80°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
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



40W Constant Voltage + Constant Current LED Driver

SPECIFICATION

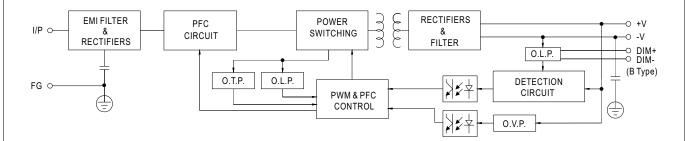
		HLG-40H-12	HLG-40H-15	HLG-40H-20	HLG-40H-24	HLG-40H-30	HLG-40H-36	HLG-40H-42	HLG-40H-48	HLG-40H-54
	DC VOLTAGE	12V	15V	20V	24V	30V	36V	42V	48V	54V
	CONSTANT CURRENT REGION Note.4	7.2 ~12V	9 ~ 15V	12 ~ 20V	14.4 ~ 24V	18 ~ 30V	21.6 ~ 36V	25.2 ~ 42V	28.8 ~ 48V	32.4 ~ 54V
	RATED CURRENT	3.33A	2.67A	2A	1.67A	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
OUTPUT -	RIPPLE & NOISE (max.) Note.2		150mVp-p	150mVp-p	200mVp-p	200mVp-p	200mVp-p	200mVp-p	300mVp-p	300mVp-p
	INT I EE W HOTOE (Max.) Hote.2		r A/AB-Type oi				Zoomvp p	Zoomvpp	occinivp p	occinivp p
	VOLTAGE ADJ. RANGE			17 ~ 22V	·	1	33 ~ 40V	40 ~ 46V	11 ~ 52\/	10 ~ 50\/
		10.8 ~ 13.5V 13.5 ~ 17V 17 ~ 22V 22 ~ 27V 27 ~ 33V 33 ~ 40V 40 ~ 46V 44 ~ 53V 49 ~ 58V Adjustable for A/AB-Type only (via built-in potentiometer)								
	CURRENT ADJ. RANGE	2 ~ 3.33A		1.2 ~ 2A	1	1	0.67 - 1.124	0.50 - 0.064	0.5 - 0.044	0.45 - 0.75
	VOLTAGE TOLERANGE H. C.				1 ~ 1.67A	0.8 ~ 1.34A	±1.0%	0.58 ~ 0.96A		0.45 ~ 0.75
	VOLTAGE TOLERANCE Note.3		±2.0%	±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		0ms,80ms/23	0VAC					
	HOLD UP TIME (Typ.)	16ms / 115VAC, 230VAC								
INPUT	VOLTAGE RANGE Note.5	90 ~ 305VAC	127 ~ 431	IVDC						
	VOLIAGE NAME Mote.5	(Please refer	to "STATIC CH	ARACTERIST	IC" section)					
	FREQUENCY RANGE	47 ~ 63Hz								
	DOWED FACTOR (T.)	PF≧0.98/115	VAC, PF≧0.9	5/230VAC, PF	≥0.92/277VA	C @ full load				
	POWER FACTOR (Typ.)	(Please refer	to "POWER FA	CTOR (PF) CH	IARACTERIST	IC" section)				
		THD< 20% (6	@ load≧60%	/ 115VAC.230	VAC: @ load≧		(C)			
	TOTAL HARMONIC DISTORTION		to "TOTAL HA				,			
	EFFICIENCY (Typ.)	86.5%	86.5%	88%	88%	88.5%	88.5%	88.5%	89.5%	89.5%
	AC CURRENT (Typ.)	0.43A / 115VA		/ 230VAC	0.23A / 277VA		00.070	00.070	00.070	00.070
	INRUSH CURRENT(Typ.)				**	**	EMA 410			
		COLD START 50A(twidth=210µs measured at 50% Ipeak) at 230VAC; Per NEMA 410								
	MAX. No. of PSUs on 16A CIRCUIT BREAKER	A 12 units (circuit breaker of type B) / 20 units (circuit breaker of type C) at 230VAC								
	LEAKAGE CURRENT	<0.75mA / 277VAC								
	OVER CURRENT	95 ~ 108%								
		Constant current limiting, recovers automatically after fault condition is removed								
							removed			
PROTECTION	SHORT CIRCUIT	Hiccup mode,	recovers auto	matically after			removed			
PROTECTION	SHORT CIRCUIT						emoved 41 ~ 49V	48 ~ 58V	54 ~ 65V	59 ~ 68V
PROTECTION		Hiccup mode, 15 ~ 21V	recovers auto	matically after 23 ~ 30V	fault condition 28 ~ 35V	is removed		48 ~ 58V	54 ~ 65V	59 ~ 68V
PROTECTION	SHORT CIRCUIT	Hiccup mode, 15 ~ 21V Shut down o/g	recovers auto	matically after 23 ~ 30V ower on to reco	fault condition 28 ~ 35V over	is removed		48 ~ 58V	54 ~ 65V	59 ~ 68V
PROTECTION	SHORT CIRCUIT OVER VOLTAGE	Hiccup mode, 15 ~ 21V Shut down o/g Shut down o/g	recovers auto 18 ~ 24V o voltage, re-po voltage, re-po	matically after 23 ~ 30V ower on to reco	fault condition 28 ~ 35V over	is removed	41 ~ 49V	48 ~ 58V	54 ~ 65V	59 ~ 68V
PROTECTION	SHORT CIRCUIT OVER VOLTAGE OVER TEMPERATURE	Hiccup mode, 15 ~ 21V Shut down o/g Shut down o/g	recovers auto 18 ~ 24V o voltage, re-po o voltage, re-po +80°C (Please	matically after 23 ~ 30V ower on to reco	fault condition 28 ~ 35V over	is removed 35 ~ 43V	41 ~ 49V	48 ~ 58V	54 ~ 65V	59 ~ 68V
	SHORT CIRCUIT OVER VOLTAGE OVER TEMPERATURE WORKING TEMP. MAX. CASE TEMP.	Hiccup mode, 15 ~ 21V Shut down o/y Shut down o/y Tcase= -40 ~ Tcase= +80°C	recovers auto 18 ~ 24V o voltage, re-po o voltage, re-po +80°C (Please	matically after 23 ~ 30V ower on to reco ower on to reco e refer to "OU"	fault condition 28 ~ 35V over	is removed 35 ~ 43V	41 ~ 49V	48 ~ 58V	54 ~ 65V	59 ~ 68V
	SHORT CIRCUIT OVER VOLTAGE OVER TEMPERATURE WORKING TEMP. MAX. CASE TEMP. WORKING HUMIDITY	Hiccup mode, 15 ~ 21V Shut down o/y Shut down o/y Tcase= -40 ~ Tcase= +80°C 20 ~ 95% RH	recovers auto 18 ~ 24V o voltage, re-po voltage, re-pc +80°C (Please non-condensir	matically after 23 ~ 30V ower on to reco ower on to reco e refer to "OU"	fault condition 28 ~ 35V over	is removed 35 ~ 43V	41 ~ 49V	48~58V	54 ~ 65V	59 ~ 68V
	SHORT CIRCUIT OVER VOLTAGE OVER TEMPERATURE WORKING TEMP. MAX. CASE TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY	Hiccup mode, $15 \sim 21V$ Shut down o/I Shut down o/I Tcase= -40 ~ Tcase= +80°C 20 ~ 95% RH -40 ~ +80°C,	recovers auto 18 ~ 24V o voltage, re-pc o voltage, re-pc (Please connon-condensir 10 ~ 95% RH	matically after 23 ~ 30V ower on to reco ower on to reco e refer to "OU"	fault condition 28 ~ 35V over	is removed 35 ~ 43V	41 ~ 49V	48 ~ 58V	54~65V	59 ~ 68V
	SHORT CIRCUIT OVER VOLTAGE OVER TEMPERATURE WORKING TEMP. MAX. CASE TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT	Hiccup mode, $15 \sim 21$ V Shut down o/s Shut down o/s Tcase= -40 \sim Tcase= +80 $^{\circ}$ C $_{\odot}$ C	recovers auto 18 ~ 24V o voltage, re-pc o voltage, re-pc -+80°C (Please	matically after 23 ~ 30V ower on to reco ower on to reco e refer to "OU"	fault condition 28 ~ 35V over over TPUT LOAD v:	is removed 35 ~ 43V	41 ~ 49V JRE" section)	48 ~ 58V	54~65V	59 ~ 68V
	SHORT CIRCUIT OVER VOLTAGE OVER TEMPERATURE WORKING TEMP. MAX. CASE TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY	Hiccup mode, $15 \sim 21V$ Shut down o/s Shut down o/s Tcase= -40 ~ Tcase= +80°C $20 \sim 95\%$ RH $-40 \sim +80°C$, $\pm 0.03\%$ °C ($10 \sim 500$ Hz, 5	recovers auto 18 ~ 24V o voltage, re-pc o voltage, re-pc +80°C (Please connon-condensir 10 ~ 95% RH 0 ~ 60°C) G 12min./1cyc	matically after 23 ~ 30V ower on to recc ower on to recce e refer to "OU"	fault condition 28 ~ 35V over over TPUT LOAD v:	is removed 35 ~ 43V s TEMPERATU	JRE" section)			59 ~ 68V
	SHORT CIRCUIT OVER VOLTAGE OVER TEMPERATURE WORKING TEMP. MAX. CASE TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION	Hiccup mode, 15 ~ 21V Shut down o/y Shut down o/y Tcase= -40 ~ Tcase= +80°C, 20 ~ 95% RH -40 ~ +80°C, ±0.03%/°C (10 ~ 500Hz, 5 UL8750(type	recovers auto 18 ~ 24V o voltage, re-pc o voltage, re-pc -80°C (Please c) non-condensir 10 ~ 95% RH 0 ~ 60°C) G 12min./1cyc "HL"), CSA C2	matically after 23 ~ 30V ower on to recc ower on to recc e refer to "OU" g ele, period for 22.2 No. 250.0	fault condition 28 ~ 35V over over TPUT LOAD v: 72min. each al	is removed $\begin{array}{c} 35 \sim 43V \\ \end{array}$ s TEMPERATU ong X, Y, Z axe IZS 61347-1,E	JRE" section) s N/AS/NZS 613	347-2-13 indep	pendent,	
	SHORT CIRCUIT OVER VOLTAGE OVER TEMPERATURE WORKING TEMP. MAX. CASE TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT	Hiccup mode, $15 \sim 21 \text{V}$ Shut down o/ ₁ Shut down o/ ₂ Tcase= -40 ~ Tcase= +80°C, $20 \sim 95\%$ RH $-40 \sim +80°C$, $\pm 0.03\%$ °C ($10 \sim 500$ Hz, 5 UL8750(type GB19510.1, 6	recovers auto 18 ~ 24V 2 voltage, re-po +80°C (Please non-condensir 10 ~ 95% RH 0 ~ 60°C) G 12min./1cyc "HL"), CSA C2 GB19510.14,E	matically after 23 ~ 30V ower on to reco ower on to reco e refer to "OU" 19 22.2 No. 250.0 AC TP TC 004	fault condition 28 ~ 35V over TPUT LOAD v: 72min. each all 1-08 , EN/AS/N 4,KC KN61347	is removed 35 ~ 43V S TEMPERATU ong X, Y, Z axe IZS 61347-1,E 1-1,KN61347-2	JRE" section)	347-2-13 indeg AB-type), IP6	pendent,	
ENVIRONMENT	SHORT CIRCUIT OVER VOLTAGE OVER TEMPERATURE WORKING TEMP. MAX. CASE TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS Note.8	Hiccup mode, 15 ~ 21V Shut down o/y Shut down o/y Tcase= -40 ~ Tcase= +80°C, ±0.03%/°C (10 ~ 500Hz, 5 UL8750(type GB19510.1,(optional mod	recovers auto 18 ~ 24V voltage, re-pc voltage, re-pc +80°C (Please connon-condensir 10 ~ 95% RH 0 ~ 60°C) G 12min./1cyc "HL"), CSAC2 3B19510.14,E els for J6134'	matically after 23 ~ 30V ower on to recc ower on to recc e refer to "OU" 19 19 19 22.2 No. 250.0 AC TP TC 004 7-1,J61347-2	fault condition 28 ~ 35V over TPUT LOAD v: 72min. each al 1-08 , EN/AS/N 1, KC KN61347 13 ; design re	is removed 35 ~ 43V s TEMPERATU ong X, Y, Z axe IZS 61347-1,E -1,KN61347-2 efer to UL6095	JRE" section) s N/AS/NZS 613 2-13(except for	347-2-13 indeg AB-type), IP6	pendent,	
ENVIRONMENT	SHORT CIRCUIT OVER VOLTAGE OVER TEMPERATURE WORKING TEMP. MAX. CASE TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS Note.8	Hiccup mode, 15 ~ 21V Shut down o/n Shut down o/n Tcase= -40 ~ Tcase= +80°C, ±0.03%/°C (10 ~ 500Hz, 5 UL8750(type GB19510.1, optional mod	recovers auto 18 ~ 24V voltage, re-pc voltage, re-pc voltage, re-pc +80°C (Please non-condensir 10 ~ 95% RH 0 ~ 60°C) G 12min./1cyc "HL"), CSA C2 GB19510.14,E els for J6134' KVAC I/P-F6	matically after 23 ~ 30V ower on to reco ower on to reco e refer to "OU" ag cle, period for 22.2 No. 250.0 AC TP TC 004 7-1,J61347-2- G:2KVAC O	fault condition 28 ~ 35V over TPUT LOAD v: 72min. each all 1-08 , EN/AS/N 4,KC KN61347 -13 ; design re /P-FG:1.5KVA	is removed 35 ~ 43V s TEMPERATU ong X, Y, Z axe IZS 61347-1,E 1-1,KN61347-2 fer to UL6095	JRE" section) s N/AS/NZS 613 2-13(except for	347-2-13 indeg AB-type), IP6	pendent,	
ENVIRONMENT	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	Hiccup mode, 15 ~ 21V Shut down o/n Shut down o/n Tcase= -40 ~ Tcase= +80°C, ±0.03%/°C (10 ~ 500Hz, 5 UL8750(type GB19510.1, optional mod I/P-O/P:3.75	recovers auto 18 ~ 24V voltage, re-pc voltage, re-pc +80°C (Please non-condensir 10 ~ 95% RH 0 ~ 60°C) G 12min./1cyc "HL"), CSA C2 GB19510.14,E els for J6134° KVAC I/P-F(G, O/P-FG:10	matically after 23 ~ 30V ower on to reco ower on to reco e refer to "OU" 199 10e, period for 12.2.2 No. 250.0 1AC TP TC 004 17-1,J61347-2 18:2KVAC O 100M Ohms / 50	fault condition 28 ~ 35V over TPUT LOAD v: 72min. each all 1-08 , EN/AS/N 4,KC KN61347 -13 ; design re /P-FG:1.5KVA	is removed 35 ~ 43V STEMPERATU ong X, Y, Z axe IZS 61347-1,E 1-1,KN61347-2 efer to UL6095 CC 70% RH	JRE" section) SS SN/AS/NZS 613 2-13(except for 0-1, TUV EN60	347-2-13 inde; AB-type), IP6 950-1, EN603	pendent , i5 or IP67 appi 335-1	roved;
ENVIRONMENT SAFETY & EMC	SHORT CIRCUIT OVER VOLTAGE OVER TEMPERATURE WORKING TEMP. MAX. CASE TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS Note.8	Hiccup mode, 15 ~ 21V Shut down o/y Shut down o/y Tcase= -40 ~ Tcase= +80°C, ±0.03%/°C (10 ~ 500Hz, 5 UL8750(type GB19510.1, o optional mod I/P-O/P:3.75 I/P-O/P, I/P-F Compliance to	recovers auto 18 ~ 24V 10 voltage, re-pc 10 voltage, re-pc 10 voltage, re-pc 10 ~ 95% RH 10 ~ 60°C) 10 G 12min./1cyc 11 CSA C2 12 Bell 9510.14, E 14 Gels for J6134 15 KVAC I/P-FC 16 G, O/P-FG:10 10 EN55015, EN	matically after 23 ~ 30V ower on to recc ower on to recc e refer to "OU" 199 10e, period for 12.2.2 No. 250.0 1AC TP TC 004 7-1,J61347-2 13:2KVAC O 100M Ohms / 50 61000-3-2 Cla	fault condition 28 ~ 35V over 72min. each all 1-08 , EN/AS/N 1,KC KN61347 -13 ; design re /P-FG:1.5KVA 00VDC / 25°C/ ss C (@ load≧	is removed 35 ~ 43V STEMPERATU ong X, Y, Z axe IZS 61347-1,E 1-1,KN61347-2 efer to UL6095 CC 70% RH 60%); EN6100	JRE" section) s N/AS/NZS 613 2-13(except for	347-2-13 inde; AB-type), IP6 950-1, EN603	pendent , i5 or IP67 appi 335-1	roved;
ENVIRONMENT	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	Hiccup mode, 15 ~ 21V Shut down o/y Shut down o/y Tcase= -40 ~ Tcase= +80°C, ±0.03%/°C (10 ~ 500Hz, 5 UL8750(type GB19510.1, optional mod I/P-O/P:3.75 I/P-O/P, I/P-F Compliance to	recovers auto 18 ~ 24V voltage, re-pc voltage, re-pc voltage, re-pc H-80°C (Please non-condensir 0 ~ 95% RH 0 ~ 60°C) G 12min./1cyc "HL"), CSA C2 BB19510.14,E els for J6134 KVAC I/P-FC G, O/P-FG:10 D EN55015, ENI D EN61000-4-2	matically after 23 ~ 30V ower on to recc ower on to recc e refer to "OU" 19 19 22.2 No. 250.0 AC TP TC 004 7-1,J61347-2- 32.2KVAC 0 00M Ohms / 50 61000-3-2 Cla 3,3,4,5,6,8,11;	fault condition 28 ~ 35V over 72min. each all 1-08, EN/AS/N 4,KC KN61347 -13; design re /P-FG:1.5KVA 00VDC / 25°C / ss C (@ load ≧ EN61547, EN5	is removed 35 ~ 43V s TEMPERATU ong X, Y, Z axe IZS 61347-1,E 1-1,KN61347-2 efer to UL6095 IC 70% RH 60%); EN6100 i5024,	JRE" section) SS (N/AS/NZS 613) 2-13(except for 0-1, TUV EN60) 00-3-3,GB17743	347-2-13 inde; AB-type), IP6 950-1, EN603	pendent , i5 or IP67 appi 335-1	roved;
ENVIRONMENT	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 IMMUNITY	Hiccup mode, 15 ~ 21V Shut down o/y Shut down o/y Tcase= -40 ~ Tcase= +80°C, ±0.03%/°C (10 ~ 500Hz, 5 UL8750(type GB19510.1, o optional mod I/P-O/P:3.75 I/P-O/P, I/P-F Compliance to light industry	recovers auto 18 ~ 24V 2 voltage, re-pc 2 voltage, re-pc +80°C (Please Conon-condensir 10 ~ 95% RH 0 ~ 60°C) GG 12min./1cyc "HL"), CSA C2 Bells for J6134 KVAC I/P-F(GG, O/P-FG:10 10 EN55015, ENI 10 EN61000-4-2 evel (surge im	matically after 23 ~ 30V ower on to recc ower on to recc e refer to "OU" 199 10e, period for 12.2.2 No. 250.0 1AC TP TC 004 17-1,J61347-2 18:2KVAC O 100M Ohms / 50 161000-3-2 Cla 13,4,5,6,8,11; munity Line-Ea	fault condition 28 ~ 35V over 72min. each all 1-08 , EN/AS/N 4,KC KN61347 -13 ; design re 7/P-FG:1.5KVA 00VDC / 25°C / ss C (@ load≧ EN61547, EN5 arth 4KV, Line-	is removed 35 ~ 43V 35 ~ 43V 35 ~ 43V 35 ~ 43V 5 TEMPERATURE 5 1347-1, E 1-1, KN61347-2, E 1-1, E 1-1, KN61347-2, E	JRE" section) SS (N/AS/NZS 613 2-13(except for 0-1, TUV EN60) 00-3-3,GB1774	347-2-13 indeg AB-type), IP6 950-1, EN603 3 and GB17625	pendent , i5 or IP67 appi 335-1	roved;
ENVIRONMENT SAFETY & EMC	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	Hiccup mode, 15 ~ 21V Shut down o/n Shut down o/n Tcase= -40 ~ Tcase= +80°C, ±0.03%/°C (10 ~ 500Hz, 5 UL8750(type GB19510.1, c optional mod I/P-O/P:3.75 I/P-O/P, I/P-F Compliance te light industry 1131.9K hrs n	recovers auto 18 ~ 24V 2 voltage, re-po +80°C (Please non-condensir 10 ~ 95% RH 0 ~ 60°C) G 12min./1cyc "HL"), CSA C2 GB19510.14,E GB19510.14,E CG, O/P-FG:10 DEN55015, ENI DEN61000-4-2 evel (surge im nin. Telcordi	matically after 23 ~ 30V ower on to recc ower on to recc e refer to "OU" 199 10e, period for 12.2.2 No. 250.0 1AC TP TC 004 17-1,J61347-2 18:2KVAC O 100M Ohms / 50 161000-3-2 Cla 13,4,5,6,8,11; munity Line-Ea	fault condition 28 ~ 35V over 72min. each all 1-08, EN/AS/N 4,KC KN61347 -13; design re /P-FG:1.5KVA 00VDC / 25°C / ss C (@ load ≧ EN61547, EN5	is removed 35 ~ 43V 35 ~ 43V 35 ~ 43V 35 ~ 43V 5 TEMPERATURE 5 1347-1, E 1-1, KN61347-2, E 1-1, E 1-1, KN61347-2, E	JRE" section) SS (N/AS/NZS 613) 2-13(except for 0-1, TUV EN60) 00-3-3,GB17743	347-2-13 indeg AB-type), IP6 950-1, EN603 3 and GB17625	pendent , i5 or IP67 appi 335-1	roved;
ENVIRONMENT	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 IMMUNITY	Hiccup mode, 15 ~ 21V Shut down o/n Shut down o/n Tcase= -40 ~ Tcase= +80°C, ±0.03%°C (10 ~ 500Hz, 5 UL8750(type GB19510.1, coptional mod I/P-O/P, I/P-F Compliance to Compliance to Light industry 1131.9K hrs n 171*61.5*36.8	recovers auto 18 ~ 24V 2 voltage, re-po +80°C (Please non-condensir 10 ~ 95% RH 0 ~ 60°C) G 12min./1cyc "HL"), CSA C2 GB19510.14,E GB19510.14,E CG, O/P-FG:10 DEN55015, ENI DEN61000-4-2 evel (surge im nin. Telcordi	matically after 23 ~ 30V ower on to recc ower on to recc e refer to "OU" 199 10e, period for 22.2 No. 250.0 AC TP TC 004 7-1, J61347-2- 32KVAC O 100M Ohms / 50 61000-3-2 Cla 2,3,4,5,6,8,11; munity Line-Ea a SR-332 (Bel	fault condition 28 ~ 35V over 72min. each all 1-08 , EN/AS/N 4,KC KN61347 -13 ; design re 7/P-FG:1.5KVA 00VDC / 25°C / ss C (@ load≧ EN61547, EN5 arth 4KV, Line-	is removed 35 ~ 43V 35 ~ 43V 35 ~ 43V 35 ~ 43V 5 TEMPERATURE 5 1347-1, E 1-1, KN61347-2, E 1-1, E 1-1, KN61347-2, E	JRE" section) SS (N/AS/NZS 613 2-13(except for 0-1, TUV EN60) 00-3-3,GB1774	347-2-13 indeg AB-type), IP6 950-1, EN603 3 and GB17625	pendent , i5 or IP67 appi 335-1	roved;

- 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. 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 (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



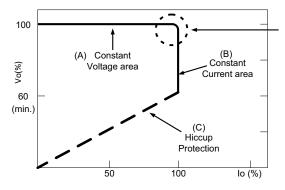
■ BLOCK DIAGRAM

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.



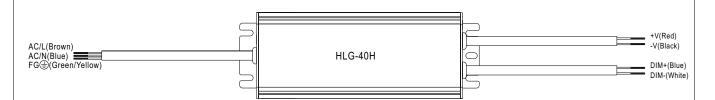
Typical output current normalized by rated current (%)

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.

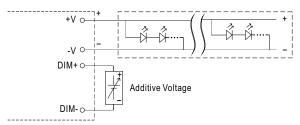


■ DIMMING OPERATION



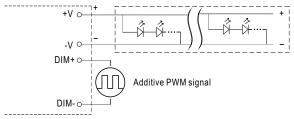
imes 3 in 1 dimming function (for B/AB-Type)

- 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



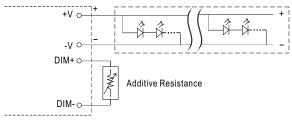
"DO NOT connect "DIM- to -V"

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

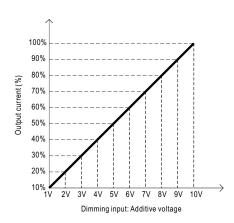


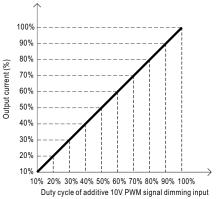
"DO NOT connect "DIM- to -V"

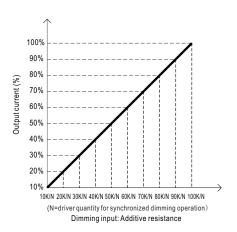
Applying additive resistance:



"DO NOT connect "DIM- to -V"

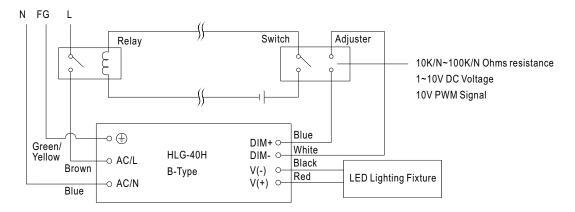






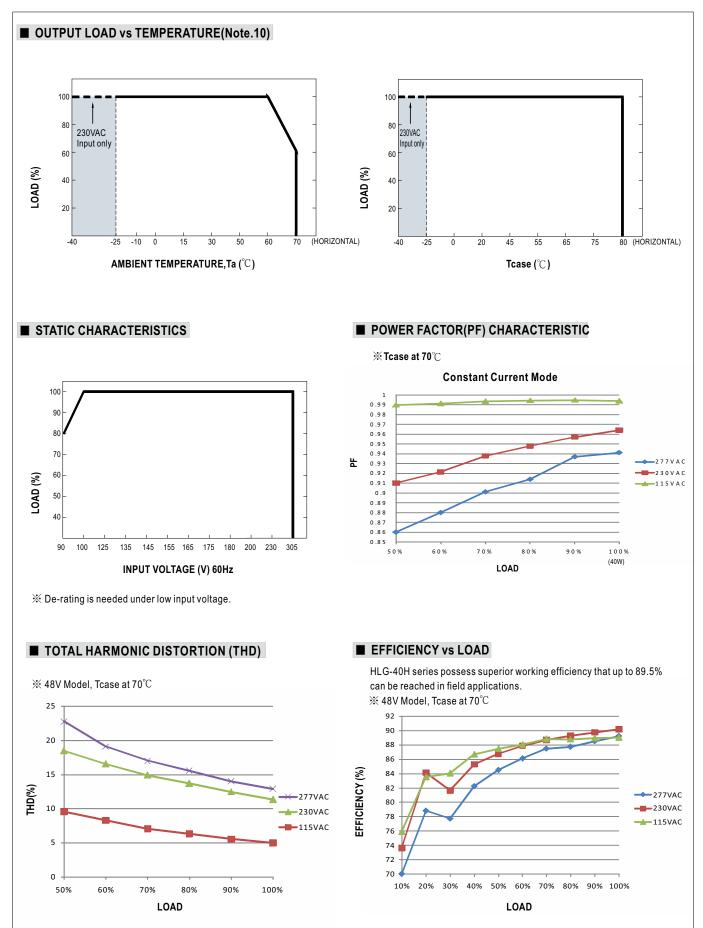


Note: In the case of turning the lighting fixture down to 0% brightness, please refer to the configuration as follow, or please contact MEAN WELL for other options.



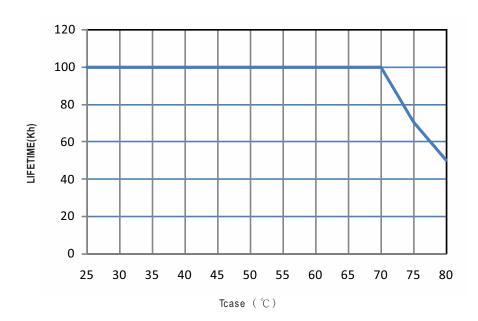
Using a switch and relay can turn ON/OFF the lighting fixture.



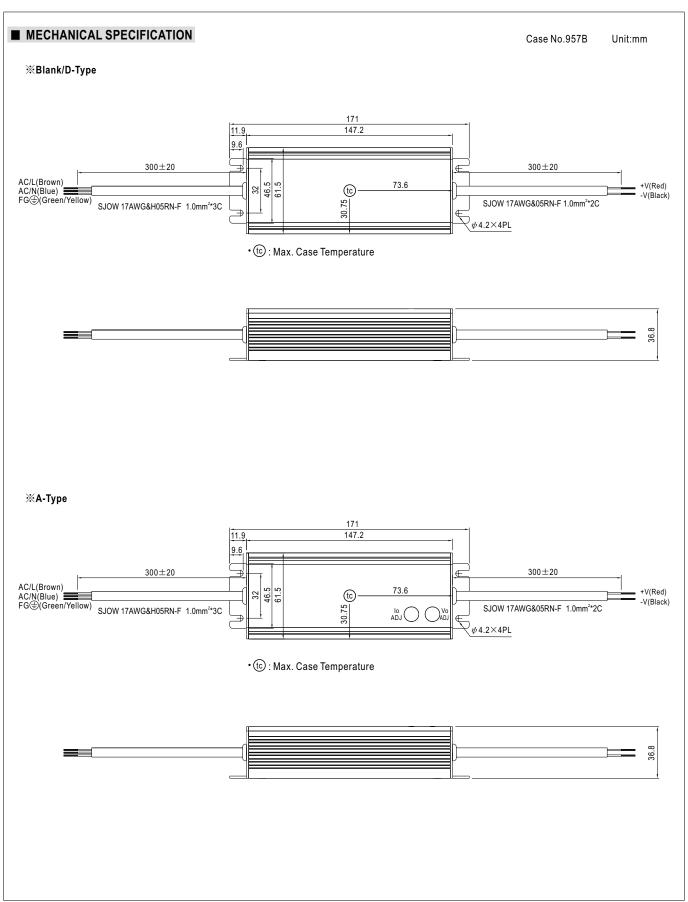




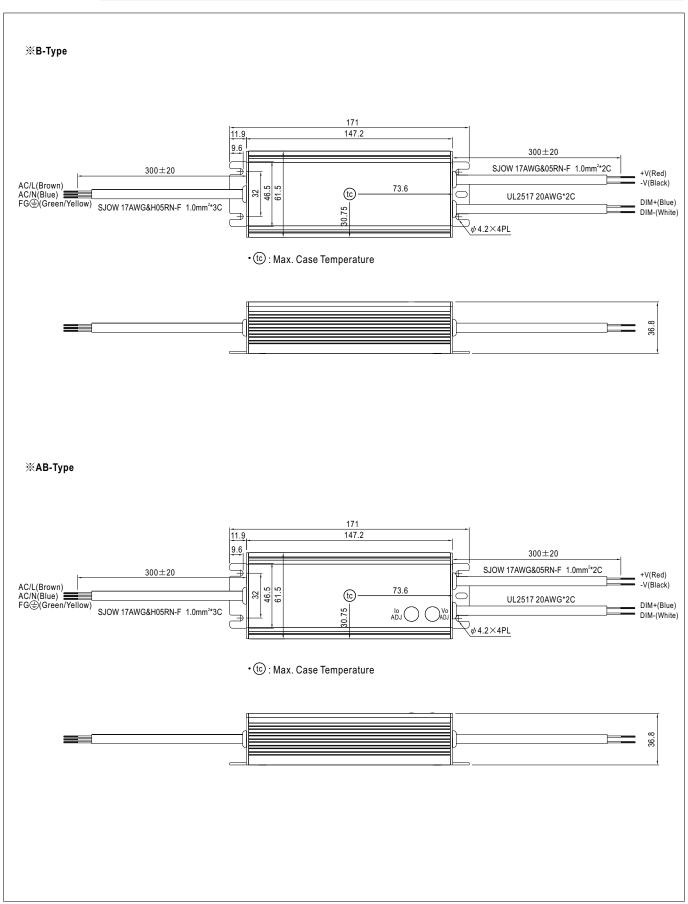
■ LIFETIME









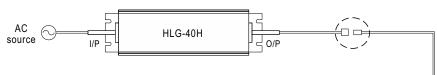




■ WATERPROOF CONNECTION

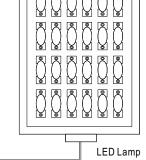
Waterproof connector

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

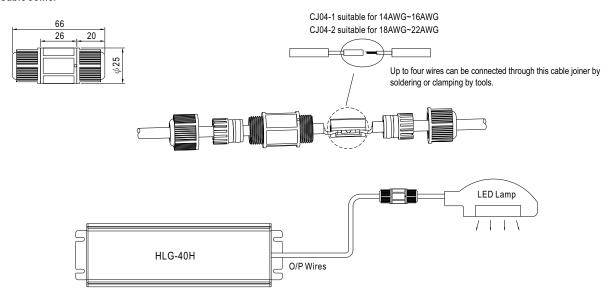


Size	Pin Configuration (Female)			
M12	000	000		
IVITZ	4-PIN	5-PIN		
	5A/PIN	5A/PIN		
Order No.	M12-04	M12-05		
Suitable Current	10A max.	10A max.		

Pin Configuration (Female)		
(o)		
2-PIN		
12A/PIN		
M15-02		
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

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

MEAN WELL:

HLG-40H-12 HLG-40H-12A HLG-40H-12B HLG-40H-12D HLG-40H-15 HLG-40H-15A HLG-40H-15B HLG-40H-15D HLG-40H-20 HLG-40H-20B HLG-40H-20D HLG-40H-24 HLG-40H-24A HLG-40H-24B HLG-40H-24D HLG-40H-30 HLG-40H-30B HLG-40H-30D HLG-40H-36 HLG-40H-36A HLG-40H-36B HLG-40H-36D HLG-40H-42 HLG-40H-42A HLG-40H-42B HLG-40H-42D HLG-40H-48 HLG-40H-48A HLG-40H-48B HLG-40H-48D HLG-40H-54 HLG-40H-54B HLG-40H-54B HLG-40H-15AB HLG-40H-15AB HLG-40H-24AB HLG-40H-15AB HLG-40H-20AB HLG-40H-20AB HLG-40H-36AB HLG-40H-36AB HLG-40H-54AB HLG-40H-