







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

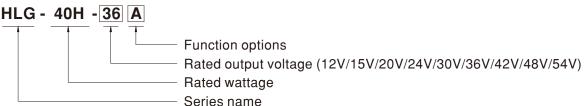
Applications

- · 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

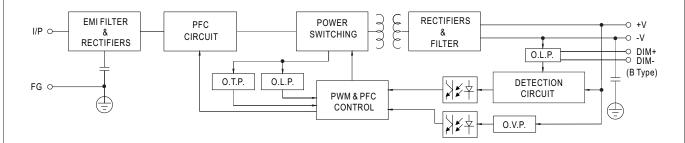
		HLG-40H-12	HLG-40H-15	HLG-40H-20	HLG-40H-24	HLG-40H-30	HLG-40H-36	HLG-40H-42	HLG-40H-48	HLG-40H-54				
	DC VOLTAGE	12V	15V	20V	24V	30V	36V	42V	48V	54V				
ОИТРИТ	CONSTANT CURRENT REGION Note.4	7.2 ~12V	9 ~ 15V	12 ~ 20V	14.4 ~ 24V	18 ~ 30V	21.6 ~ 36V	25.2 ~ 42V	28.8 ~ 48V	32.4 ~ 54V				
	RATED CURRENT	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	200mVp-p	200mVp-p	200mVp-p	200mVp-p	300mVp-p	300mVp-p				
	== (r A/AB-Type o											
	VOLTAGE ADJ. RANGE	10.8 ~ 13.5V		17 ~ 22V	22 ~ 27V	27 ~ 33V	33 ~ 40V	40 ~ 46V	44 ~ 53V	49 ~ 58V				
			r A/AB-Type o				100 101		111 001	10 001				
	CURRENT ADJ. RANGE	2 ~ 3.33A		1.2 ~ 2A	1 ~ 1.67A	0.8 ~ 1.34A	0 67 ~ 1 12Δ	0.58 ~ 0.96A	0.5~0.844	0.45 ~ 0.75				
	VOLTAGE TOLERANCE Note.3		±2.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%				
		±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%				
	LINE REGULATION						±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	UVAC									
INPUT	HOLD UP TIME (Typ.)	16ms / 115VA												
	VOLTAGE RANGE Note.5	90 ~ 305VAC 127 ~ 431VDC												
		(Please refer to "STATIC CHARACTERISTIC" section)												
	FREQUENCY RANGE	47 ~ 63Hz												
	POWER FACTOR (Typ.)		VAC, PF≧0.9			0								
	1 01121(17/0101(17p.)	(Please refer	to "POWER FA	CTOR (PF) CH	IARACTERIST	IC" section)								
	TOTAL HARMONIC DISTORTION	THD< 20% ((@ load≧60% .	/ 115VAC,230	VAC; @ load	≧75% / 277VA	C)							
	TO TAL HARMONIC DISTORTION	(Please refe	r to "TOTAL HA	ARMONIC DIS	STORTION (TH	ID)" section)								
	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 / 277VA	AC .	•							
	INRUSH CURRENT(Typ.)	COLD START	50A(twidth=210	μs measured a	it 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	<0.75m\/.277\/\\C												
	ELAKAGE GOKKENT	<0.75mA/277VAC												
	I	95 ~ 108%												
	OVER CURRENT	C	and limiting up		tically after far		Constant current limiting, recovers automatically after fault condition is removed Hiccup mode, recovers automatically after fault condition is removed							
							emoved							
PROTECTION	OVER CURRENT SHORT CIRCUIT	Hiccup mode,	recovers auto	matically after	fault condition	is removed		40 501/	54 05)/	50 001/				
PROTECTION	SHORT CIRCUIT	Hiccup mode, 15 ~ 21V	recovers auto	matically after 23 ~ 30V	fault condition 28 ~ 35V		emoved 41 ~ 49V	48 ~ 58V	54 ~ 65V	59 ~ 68V				
PROTECTION	SHORT CIRCUIT OVER VOLTAGE	Hiccup mode, 15 ~ 21V Shut down o/p	recovers auto 18 ~ 24V o voltage, re-po	matically after 23 ~ 30V ower on to reco	fault condition 28 ~ 35V over	is removed		48 ~ 58V	54 ~ 65V	59 ~ 68V				
PROTECTION	SHORT CIRCUIT	Hiccup mode, 15 ~ 21V Shut down o/g Shut down o/g	recovers auto 18 ~ 24V o voltage, re-po o voltage, re-po	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				
PROTECTION	SHORT CIRCUIT OVER VOLTAGE	Hiccup mode, 15 ~ 21V Shut down o/g Shut down o/g Tcase= -40 ~	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	41 ~ 49V	48 ~ 58V	54 ~ 65V	59 ~ 68V				
PROTECTION	SHORT CIRCUIT OVER VOLTAGE OVER TEMPERATURE	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 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.	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.	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 voltage, re-po +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	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-po +80°C (Please non-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				
PROTECTION	SHORT CIRCUIT OVER VOLTAGE OVER TEMPERATURE WORKING TEMP. MAX. CASE TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY	Hiccup mode, $15 \sim 21$ V Shut down o/s Shut down o/s Tcase= -40 \sim Tcase= +80 $^{\circ}$ C $_{\odot}$ RH $_{\odot}$ -40 \sim +80 $^{\circ}$ C $_{\odot}$ $_{\odot}$ C $_{\odot}$	recovers auto 18 ~ 24V o voltage, re-po o voltage, re-po non-condensir 10 ~ 95% RH 0 ~ 60°C)	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 URE" section)	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, $15 \sim 21 \text{V}$ Shut down o/ ₁ Shut down o/ ₂ Tcase= -40 ~ Tcase= +80°C, $\pm 0.03\%$ °C ($\pm 0.03\%$ °C ($\pm 0.03\%$ °C) (UL8750(type GB19510.1,6)	recovers auto 18 ~ 24V 2 voltage, re-po 2 voltage, re-po +80°C (Please 10 ~ 95% RH 0 ~ 60°C) 6G 12min./1cyc "HL"), CSAC2 GB19510.14,E	matically after 23 ~ 30V ower on to reco ower on to reco e refer to "OU" 19 1ele, period for 22.2 No. 250.0 AC TP TC 004	fault condition 28 ~ 35V over over TPUT LOAD v 72min. each al 0-08 , EN/AS/N 4,KC61347-1,	is removed 35 ~ 43V S TEMPERATU ong X, Y, Z axe IZS 61347-1,E KC61347-2-13	41 ~ 49V URE" section)	347-2-13 indeg -type), IP65 oi	pendent,					
ENVIRONMENT	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, ±0.03%°C (10 ~ 500Hz, 5 UL8750(type GB19510.1,(J61347-1,J6	recovers auto 18 ~ 24V 2 voltage, re-po 2 voltage, re-po +80°C (Please 10 ~ 95% RH 0 ~ 60°C) 6G 12min./1cyc "HL"), CSAC2 GB19510.14,E	matically after 23 ~ 30V ower on to recc ower on to recc e refer to "OU" 19 19 1ele, period for 12.2 No. 250.0 AC TP TC 00- cept for B,AB	fault condition 28 ~ 35V over over TPUT LOAD v 72min. each al 1-08 , EN/AS/N 4, KC61347-1, and D-type);	is removed 35 ~ 43V s TEMPERATU ong X, Y, Z axe IZS 61347-1,E (C61347-2-13 design refer to	JRE" section) s N/AS/NZS 613	347-2-13 indeg -type), IP65 oi	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, J61347-1,J6	recovers auto 18 ~ 24V o voltage, re-po o voltage, re-po +80°C (Pleasi non-condensir 10 ~ 95% RH 0 ~ 60°C) GG 12min./1cyo "HL"), CSA C2 3B19510.14,E 1347-2-13 (ex	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 cept for B,AB G:2KVAC O	fault condition 28 ~ 35V over over TPUT LOAD v 72min. each al 0-08 , EN/AS/N 4,KC61347-1, and D-type); (/P-FG:1.5KVA	is removed 35 ~ 43V s TEMPERATU ong X, Y, Z axe IZS 61347-1,E CC61347-2-13 design refer to	JRE" section) s N/AS/NZS 613	347-2-13 indeg -type), IP65 oi	pendent,					
	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, J61347-1,J6 I/P-O/P:3.75	recovers auto 18 ~ 24V o voltage, re-po o voltage, re-po +80°C (Please non-condensir 10 ~ 95% RH 0 ~ 60°C) 6G 12min./1cyc 3B19510.14,E 1347-2-13 (ex KVAC I/P-F6	matically after 23 ~ 30V ower on to recc ower on to recc e refer to "OU" 199 10e, period for 12.2 No. 250.0 1AC TP TC 004 1AC	fault condition 28 ~ 35V over TPUT LOAD v 72min. each al 0-08 , EN/AS/N 4,KC61347-1, and D-type) ; 0 //P-FG:1.5KVA	is removed 35 ~ 43V STEMPERATU ong X, Y, Z axe IZS 61347-1,E KC61347-2-13 design refer to C 70% RH	JRE" section) s N/AS/NZS 613 (except for AB UL60950-1, T	347-2-13 indeg -type), IP65 oi UV EN60950-	pendent , r IP67 approve 1, EN60335-1	ed;				
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, G1347-1, J6 I/P-O/P:3.75 I/P-O/P, I/P-F Compliance to	recovers auto 18 ~ 24V o voltage, re-po o voltage, re-po +80°C (Please non-condensir 10 ~ 95% RH 0 ~ 60°C) 6G 12min./1cyc "HL"), CSAC2 6B19510.14,E 1347-2-13 (ex KVAC I/P-F6 o C)P-FG:10 o EN55015, EN o EN61000-4-2	matically after 23 ~ 30V ower on to reco ower on to reco e refer to "OU" 19 19 22.2 No. 250.0 AC TP TC 004 cept for B,AB 3:2KVAC O 10M Ohms / 50 61000-3-2 Cla 3,3,4,5,6,8,11;	fault condition 28 ~ 35V over 72min. each al 0-08 , EN/AS/N 4,KC61347-1, and D-type) ; 0 //P-FG:1.5KVA 00VDC / 25°C / sss C (@ load ≧ EN61547, EN5	is removed 35 ~ 43V s TEMPERATU ong X, Y, Z axe IZS 61347-1,E KC61347-2-13 design refer to CC 70% RH :60%); EN6100	JRE" section) s N/AS/NZS 613 (except for AB UL60950-1, T	347-2-13 indeg -type), IP65 oi UV EN60950-	pendent , r IP67 approve 1, EN60335-1	ed;				
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 EMISSION 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, (J61347-1, J6 I/P-O/P, I/P-F Compliance to light industry	recovers auto 18 ~ 24V o voltage, re-po o voltage, re-po +80°C (Please non-condensir 10 ~ 95% RH 0 ~ 60°C) 6G 12min./1cyc "HL"), CSAC2 6B19510.14,E 1347-2-13 (ex KVAC I/P-F6 0 C)P-FG:10 0 EN55015, EN to EN61000-4-2 level (surge im	matically after 23 ~ 30V ower on to reco ower on to reco e refer to "OU" 19 19 22.2 No. 250.0 AC TP TC 004 cept for B,AB 3:2KVAC O 00M Ohms / 50 61000-3-2 Cla 2,3,4,5,6,8,11; munity Line-Ea	fault condition 28 ~ 35V over 72min. each al 0-08 , EN/AS/N 4,KC61347-1, and D-type) ; 0 //P-FG:1.5KV 00VDC / 25°C / ss C (@ load ≧ EN61547, EN5 arth 4KV, Line-	is removed 35 ~ 43V s TEMPERATU ong X, Y, Z axe IZS 61347-1,E KC61347-2-13 design refer to CC 70% RH 60%); EN6100 i5024, Line 2KV), EAC	JRE" section) s N/AS/NZS 613 (except for AB UL60950-1, T	347-2-13 indeg -type), IP65 oi UV EN60950-7 3 and GB17625	pendent , r IP67 approve 1, EN60335-1	ed;				
SAFETY &	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, 1 J61347-1,J6 I/P-O/P, I/P-F Compliance to Light industry 1131.9K hrs n	recovers auto 18 ~ 24V o voltage, re-po voltage, re-po +80°C (Please non-condensir 10 ~ 95% RH 0 ~ 60°C) GG 12min./1cyc "HL"), CSA C2 GBH 9510.14,E 1347-2-13 (ex KVAC I/P-Fo GO, O/P-FG:10 DEN55015, EN DEN61000-4-2 level (surge im nin. Telcordi	matically after 23 ~ 30V ower on to reco ower on to reco e refer to "OU" 19 19 22.2 No. 250.0 AC TP TC 004 cept for B,AB 3:2KVAC O 00M Ohms / 50 61000-3-2 Cla 2,3,4,5,6,8,11; munity Line-Ea	fault condition 28 ~ 35V over 72min. each al 0-08 , EN/AS/N 4,KC61347-1, and D-type) ; 0 //P-FG:1.5KVA 00VDC / 25°C / sss C (@ load ≧ EN61547, EN5	is removed 35 ~ 43V s TEMPERATU ong X, Y, Z axe IZS 61347-1,E KC61347-2-13 design refer to CC 70% RH 60%); EN6100 i5024, Line 2KV), EAC	JRE" section) s N/AS/NZS 613 (except for AB UL60950-1, T	347-2-13 indeg -type), IP65 oi UV EN60950-7 3 and GB17625	pendent , r IP67 approve 1, EN60335-1	ed;				
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 EMISSION 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,(J61347-1,J6 I/P-O/P, I/P-F Compliance to Compliance to light industry 1131.9K hrs n 171*61.5*36.	recovers auto 18 ~ 24V o voltage, re-po voltage, re-po +80°C (Please non-condensir 10 ~ 95% RH 0 ~ 60°C) GG 12min./1cyc "HL"), CSA C2 GBH 9510.14,E 1347-2-13 (ex KVAC I/P-Fo GO, O/P-FG:10 DEN55015, EN DEN61000-4-2 level (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 Cept for B,AB 3:2KVAC 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 al 0-08 , EN/AS/N 4,KC61347-1, and D-type) ; 0 //P-FG:1.5KV 00VDC / 25°C / ss C (@ load ≧ EN61547, EN5 arth 4KV, Line-	is removed 35 ~ 43V s TEMPERATU ong X, Y, Z axe IZS 61347-1,E KC61347-2-13 design refer to CC 70% RH 60%); EN6100 i5024, Line 2KV), EAC	JRE" section) s N/AS/NZS 613 (except for AB UL60950-1, T	347-2-13 indeg -type), IP65 oi UV EN60950-7 3 and GB17625	pendent , r IP67 approve 1, EN60335-1	ed;				

- 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 (© 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



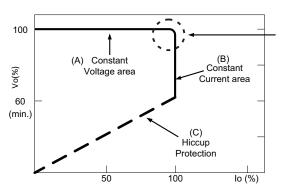
■ BLOCK DIAGRAM

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.



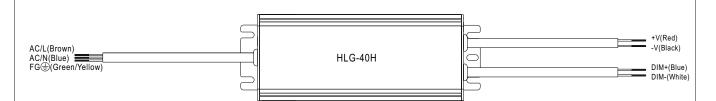
Typical output current normalized by rated current (%)

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.

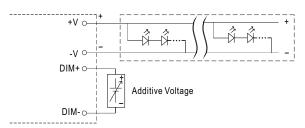


■ DIMMING OPERATION



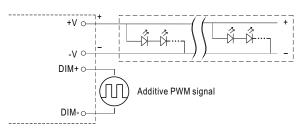
imes 3 in 1 dimming function (for B/AB-Type)

- 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



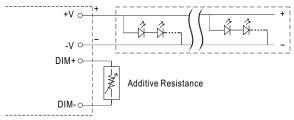
"DO NOT connect "DIM- to -V"

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

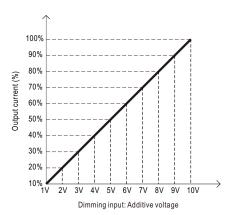


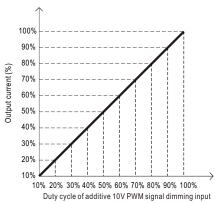
"DO NOT connect "DIM- to -V"

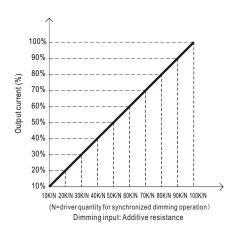
Applying additive resistance:



"DO NOT connect "DIM- to -V"

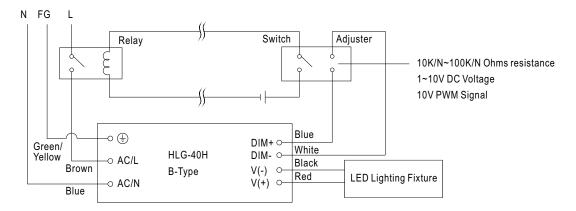






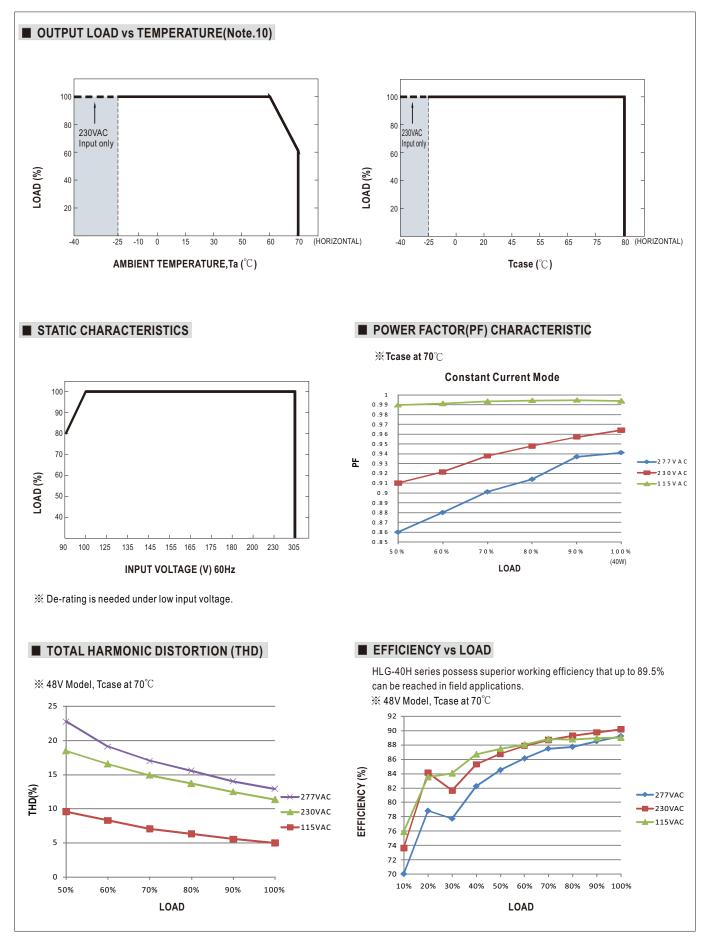


Note: In the case of turning the lighting fixture down to 0% brightness, please refer to the configuration as follow, or please contact MEAN WELL for other options.



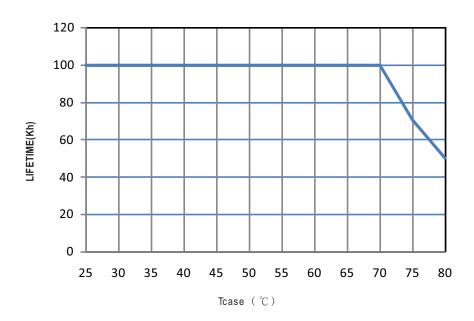
Using a switch and relay can turn ON/OFF the lighting fixture.



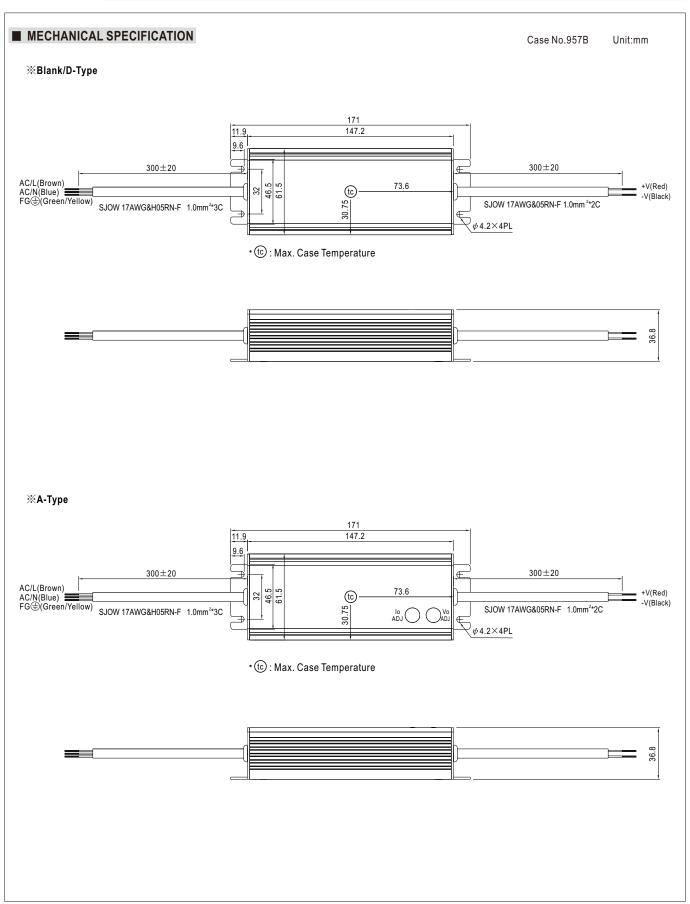




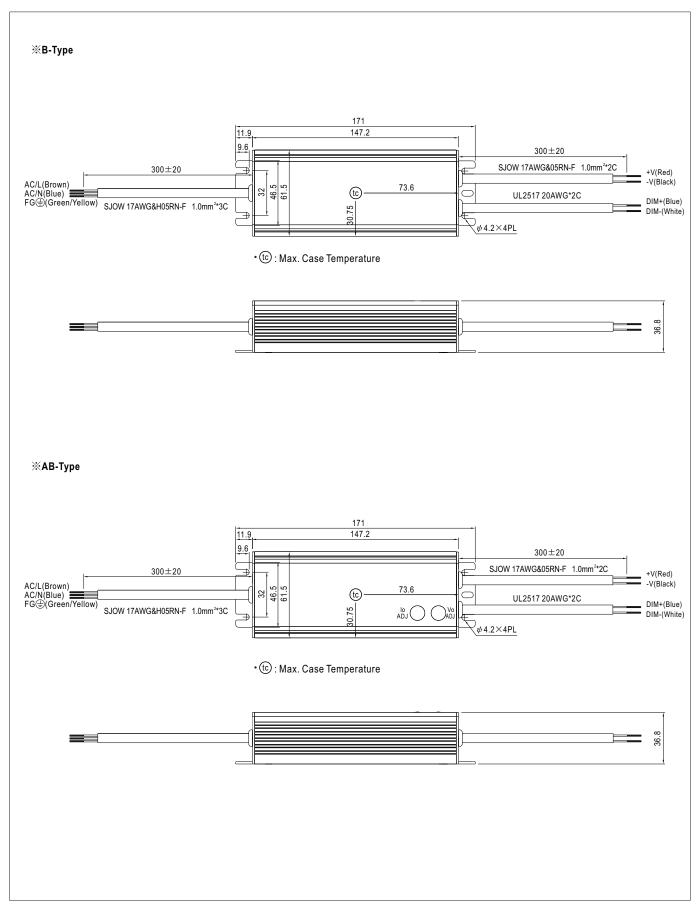
■ LIFETIME









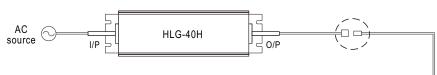




■ WATERPROOF CONNECTION

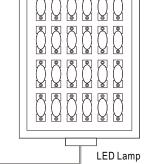
$\frak{\%}$ Waterproof connector

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

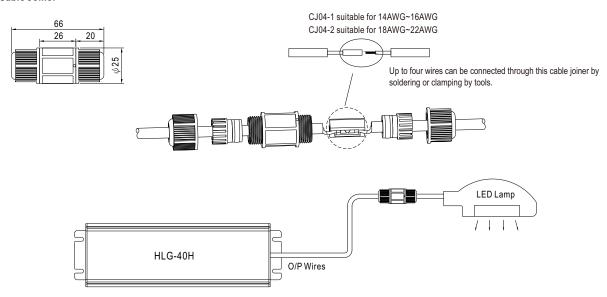


Size	Pin Configuration (Female)			
M12	000	<u></u>		
IVITZ	4-PIN	5-PIN		
	5A/PIN	5A/PIN		
Order No.	M12-04	M12-05		
Suitable Current	10A max.	10A max.		

Size	Pin Configuration (Female)
M15	00
IVIII	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