

ATM Comercial Iluminación LED

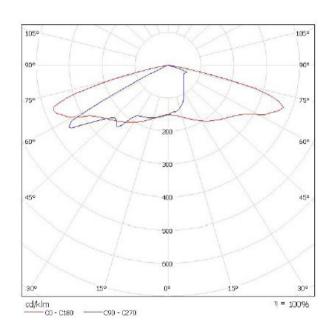
Tel: 2296 0070 • Pavas, San José, Costa Rica

• ATM LEDS de Costa Rica • www.iluminacionledcr.com

Street Light U-series module-base street light

	40W	80W	120W
* CCT 5700K * IP65			
LED	CREE LED CREE	CREE LED CREE	CREE LED CREE
Input voltage	AC 90 ~ 305V	AC 90 ~ 305V	AC 90 ~ 305V
Luminous Flux (Im)	3200 lm	6400 lm	9600 lm
Dimension	135 x 190 x 148 mm	304 x 190 x 148 mm	488 x 190 x 148 mm
Weight	3.5 kg	7 kg	10 kg
Power supply	Mean Well MEAN WELL	Mean Well HLG-80H-42A	Mean Well

Street Light U-series













INSTALLATION INSTRUCTIONS

Power cable through the pole and the pole fix in luminaire's holder. Screw tightly to the luminaire by M10 screw.

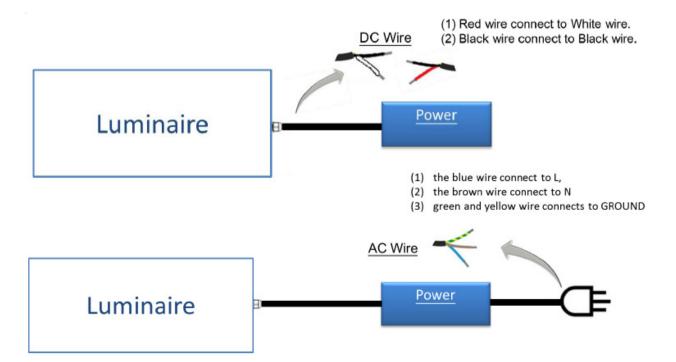


Power cable through the pole and the pole fix in luminaire's holder.



Screw tightly to the luminaire by M10 screw.







- Features
- Universal AC input / Full range (up to 305VAC)
 Built-in active PFC function
- Protections: Short circuit / Over current / Over voltage / Over temperature
- Cooling by free air convection
- OCP point adjustable through output cable or internal potentiometer IP67 / IP65 design for indoor or outdoor installations

- "UL8750 listed" safety approved for HLG-80H-∐BL
- Class 2 power unit
- Three in one dimming function (1~10Vdc or PWM signal or resistance) Suitable for LED lighting and moving sign applications Compliance to worldwide safety regulations for lighting

- Suitable for dry / damp / wet locations
- ⊕ (↑) ₹ ₹ ₩ ₩ selv IP65 IP67 (₽)













G FILLUS Lex resent for HLG-80H-48/54)









A : IDES total Output to Italy and constant output lovel on the adjusted through internal paters

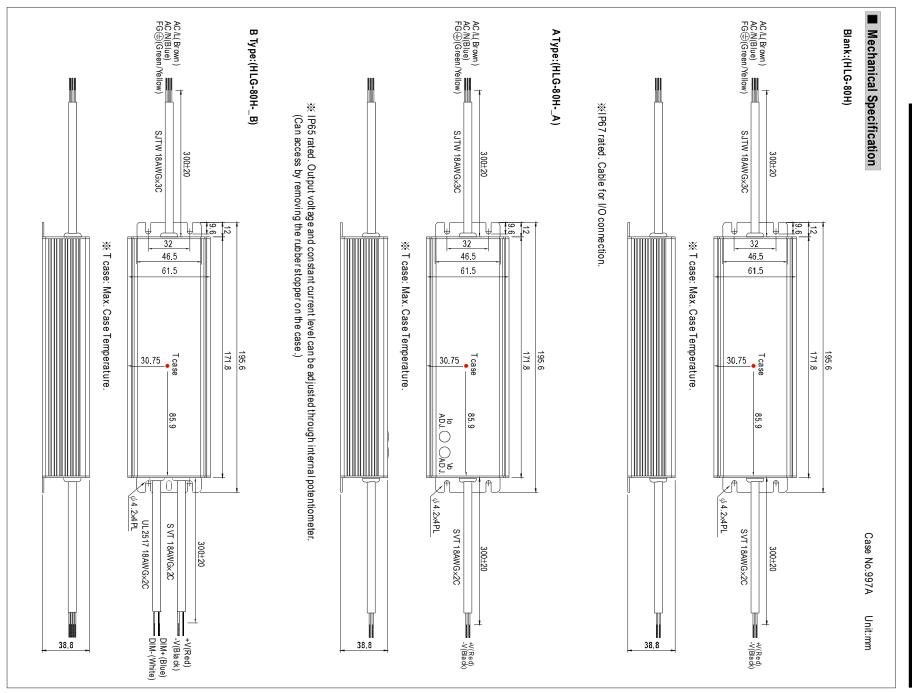


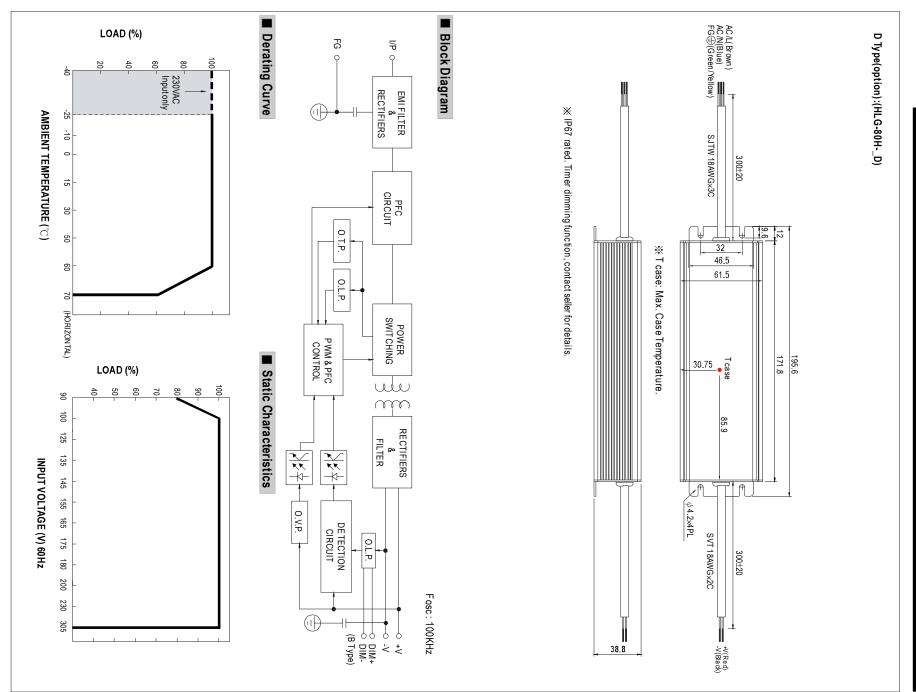


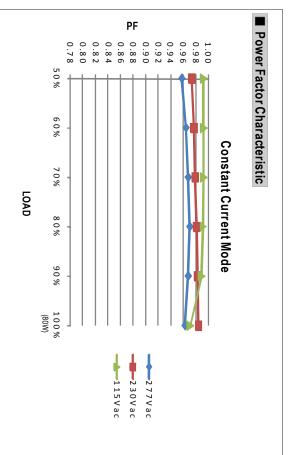




	D (option): ID67 roted Time religions to potion of		L			L-1, II,				
SPECIFICATION	ATION	- aleu i	el allimine	iuliciion, co	HI dCl Seller	of details.				
MODEL		HLG-80H-12	HLG-80H-15	HLG-80H-20	НСG-80Н-24	НГС-80Н-30 □	HLG-80H-36	HLG-80H-42	HL G-80H-48	HLG-80H-54
	DC VOLTAGE	12V	15V		24V	30V	36V		48V	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
. -	NT	5A	5A	4A	3.4A	2.7A	2.3A	1.95A	1.7A	1.5A
. 1 =	RIPPI F & NOISE (max) Note 2	150mVn-n	150mVn-n	150mVn-n	150 mVn-n	200mVn-n	200mVn-n	200mVn-n	200mVn-n	200mVn-n
_ I.		10.8 ~ 13.5V		17 ~ 22V	22 ~ 27V	27~33V	33 ~ 40V	38 ~ 46V	43 ~ 53V	49 ~ 58V
OUTPUT ,		Can be adjust	ed by internal	Can be adjusted by internal potentiometer A type only	A type only	-				
	CORRENT AUG. RANGE	3~5A	3~5A	2.4 ~ 4A	2.04~3.4A	1.62 ~ 2.7A	1.38 ~ 2.3A	1.17 ~ 1.95A	1.02~1.7A	0.9~1.5A
	ICE Note.3		±2.0%	±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%
	Z	±2.0%	±1.5%	. %	±0.5%	±0.5%	±0.5%	±0.5%		±0.5%
-	SEIUP, KISE TIME Note.8	16ms at full lo	16ms at full load 230 VAC at full load	5	UUUms, 8Ums / 23UVAC at full load; B type	UVAC at tull loa	a; B type zuu	ZUUUMS, ZUUMS at 95% load		230 VAC / 115 VAC
	70.)	יסווס מנומווס	107 - 10	1000						
. 1	EBECHENCY BANGE Note.5	47~63Hz	127 ~ 431400							
 -	POWER FACTOR (Tvp.)	PF>0.96/115V	AC. PF > 0.96/	230VAC. PF>0	.94/277VAC at	full load (Pleas	e refer to "Pow	/er Factor Char	PF>0.96/115VAC. PF>0.96/230VAC. PF>0.94/277VAC at full load (Please refer to "Power Factor Characteristic" curve)	e)
	RTION	THD< 20% w	hen output loa	ading≧60% at	115VAC/230V	AC input and c	utput loading	THD< 20% when output loading $\geq\!60\%$ at 115VAC/230VAC input and output loading $\geq\!75\%$ at 277VAC input loading $\sim\!1000$	AC input	
	AC CURRENT (T)	88%	9%	90%	90.5%	91%	91%	91%	91%	91%
=1-	INRUSH CURRENT (Typ.)	COLD START 70	70A(twidth=486	#=485 (/s measured :	COLD START 70A(twidth=485 //s measured at 50% heak) at 230VAC	230VAC				
	LEAKAGE CURRENT	<0.75mA / 277VAC	7VAC	2	or only bound or					
	OVER CURRENT Note.4	95~108%								
0		Protection typ	e : Constant c	urrent limiting,	Protection type : Constant current limiting, recovers automatically after fault condition is removed Hissun mode, resovers automatically after fault condition is removed	natically after for	ault condition is	removed		
PROTECTION	olioki olikooli.	14~ 17V	18~24V	23~30V	14~17V 18~24V 23~30V 28~35V 35~43V	35 ~ 43V	41~49V	48~ 58V	54~63V	59 ~ 68V
_	OVER VOLTAGE	Protection typ	e: Shut down	o/p voltage, re	Protection type: Shut down o/p voltage, re-power on to recover	cover				
	OVER TEMPERATURE	85°C ±10°C (RTH2)	RTH2)							
		Protection typ	e: Shut down	o/p voltage, re	Protection type: Shut down o/p voltage, re-power on to recover	cover				
-	WORKING TEMP.	-40~+70°C (I	-40 ~ +70°C (Refer to "Derating Curve")	ting Curve")						
_	WORKING HUMIDITY	20~95% RH	20 ~ 95% RH non-condensing	ng						
ENVIRONMENT	STORAGE TEMP, HUMIDITY	-40 ~ +80°C, 10 ~ 95% RH	10~95% RH							
	TEMP. COEFFICIENT	±0.03%/°C (0~60°C)	~ 60°C)							
_	VIBRATION	10~500Hz, 5	G 12min./1cy	cle, period for	$10 \sim 500 \text{Hz}, 5G 12 \text{min.} / 1 \text{cycle, period for } 72 \text{min. each along X, Y, Z axes}$	ong X, Y, Z axe	0,			
"	SAFETYSTANDARDS Note.7	UL8750, CSA	, C22.2 No. 25	0.0-08(excepti	for HL G-80H-48	3/54V & HLG-8	0H-48/54BL), L	JL8750 listed for	UL8750, CSA C22.2 No. 250.0-08(except for HLG-80H-48/54V & HLG-80H-48/54BL), UL8750 listed for HLG-80H-III BL	BL
SAFETY &	WITHSTAND VOLTAGE	I/P-O/P:3.75I	KVAC I/P-F	G:2KVAC O	I/P-O/P:3 75KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC	C 10, 11 00 01	approved	, Design reies	IP-O/P:375KVAC IP-EG:2KVAC O/P-EG:0.5KVAC	1
	ISOLATION RESISTANCE	I/P-0/P. I/P-F	:G. O/P-FG:1	00M Ohms / 50	//P-O/P. //P-FG. O/P-FG:100M Ohms /500VDC / 25°C/ 70% RH	70% RH				
	EMC EMISSION	Compliance to	FN55015 FI	V61000-3-2 CI	Compliance to EN55015 EN61000-3-2 Class C (≥ 60% load) · EN61000-3-3	oad) : FN6100	0-3-3			
I -	EMC IMMUNITY	Compliance to	5 EN61000-4-	2.3,4,5,6,8,11,	EN61547, EN5	5024, light indu	stry level (surc	Compliance to EN610004-2.3,4,5,6,8,11, EN61547, EN55024, light industry level (surge 4KV), criteria	a A	
=	MTBF	357.8K hrs min.	n. MIL-HDI	MIL-HDBK-217F (25°C)		ć				
OTHERS	DIMENSION	195.6*61.5*38	₹ I	•						
_		0.84Ka; 16pcs	0.84Kg; 16pcs/14.4Kg/0.54CUFT	CUFT						
NOTE	ameters NOT special & noise are measure & noise are measure nce: includes set up int current operation r rm special electrical r rm special electrical r	y mentioned a d at 20MHz o olerance, line egion is within equirements to der low input	are measured f bandwidth b regulation an 160% ~100% or some spec voltages. Ples	at 230VAC in y using a 12" y using a 12" old load regulat orated output	put, rated load twisted pair-will twisted pair-will fon. /oltage. This is sign.	and 25°C of a e terminated with the suitable quistiss for more	umbient tempe vith a 0.1uf & ./ oeration region	rature. 47uf parallel ca 1 for LED relat	spacitor. ed applications	s, but plea
	 A lybe only. A lybe only. A lybe only. Safety and EMC design refer to EN60598-1, CNS15233, GB7000.1, FCC part 18. Length of set up time is measured at cold first start. Turning ON/OFF the power supply may lead to increase of the set up time. The power supply is considered as a component that will be operated in combination with final equipment. Since EMC performation, the final equipment manufacturers must re-qualify EMC Directive on the complete installation again. 	ir to EN60598 isured at cold ired as a com	+1, CNS1523 first start. Tu ponent that w	3, GB7000.1, I ming ON/OFF vill be operated must re-quali	FCC part18. the power sup	ply may lead t	o increase of t sipment. Since	the set up time	up time. performance will be affected by the	fected by

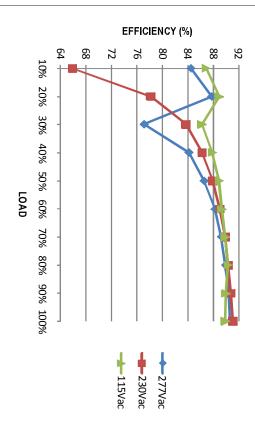






■ EFFICIENCY vs LOAD (48V Model)

HLG-80H series possess superior working efficiency that up to 91% can be reached in field applications.

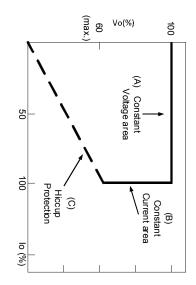


■ DRIVING METHODS OF LED MODULE

There are two major kinds of LED drive method "direct drive" and "with LED driver".

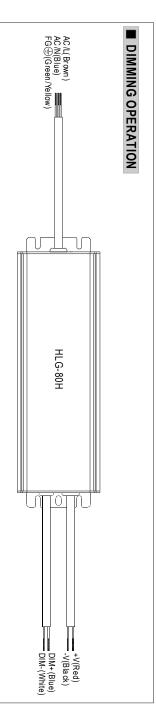
Atypical LED power supply maye ither work in "constant voltage mode (CV) or constant current mode (CC)" to drive the LEDs.

LED power supply with CV+ CC dharacteristic can be operated at both CV mode [with LED driver, at area (A)] and CC mode [direct drive, at area (B)].



Typical LED power supply I-V curve

HLG-80H series



X Built-in 3 in 1 dimming function, IP67 rated. Output constant current level can be adjusted through output cable by connecting a resistance or

 $1 \sim 10 \, \text{Vdc}$ or $10 \, \text{V}$ PWM signal between DIM+ and DIM-

 $\ensuremath{\mathbb{X}}$ Please DO NOT connect "DIM-" to "-V ".

※ Reference resistance value for output current adjustment (Typical)

Percentage	value	Resistance
ge of rated current	Multiple drivers (N=driver quantity for synchronized dimming operation)	Single driver
10%	10KΩN	10K Ω
20%	1 20ΚΩ/Ν 30ΚΩΛ	$\mathbf{20K}\Omega$
30 %	30KΩN	30 K Ω
40%	40K \(\O\) N	40KΩ
50%	50KΩN	50ΚΩ
60%	60K \(\O\) N	60ΚΩ
70%	70KΩN	70K Ω
80%	80KΩ/N	80KΩ
90%	90KΩN	10 א Ω 20 א Ω 30 א Ω 40 א Ω 50 א Ω 60 א Ω 70 א Ω 80 א Ω 90 א Ω 100 א Ω
100%	100KΩ/N	100ΚΩ
102%~108%	-	OPEN

 \times 1 ~ 10V dimming function for output current adjustment (Typical)

Dimming value 1V 2V 3V 4V 5V 6V 7V 8V 9V 10V OPEN Percentage of rated current 10% 20% 30% 40% 50% 60% 70% 80% 90% 100% 102%~108%	Section 19 Company Company Company Company Company	0 000000		9	() po . o co. /							
entage of rated current 10% 20% 30% 40% 50% 60% 70% 80% 90% 100% 102%~10	ning v	1V	2V	3V	4V	5V	6V	7V	87	9V	10V	OPEN
	entage of	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	102%~108%

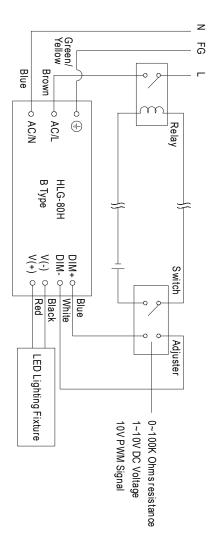
※ 10V PWM signal for output current adjustment (Typical): Frequency range :100 Hz ~ 3KHz

Percentage of rated current	Duty value
10%	10%
20%	20%
30%	30%
40%	40%
50%	50%
60%	60%
70%	70%
80%	80%
90%	90%
100%	100%
102%~108%	OPEN

XUsing the built-in dimming function on B-type model can't turn the lighting fixture totally dark. Please refer to the connection method below to achieve 0% brightness of the lighting fixture connecting to the LED power supply unit.

 \times Direct connecting to LEDs is suggested, but is not suitable for using additional drivers.

Dimming connection diagram for turning the lighting fixture ON/OFF:

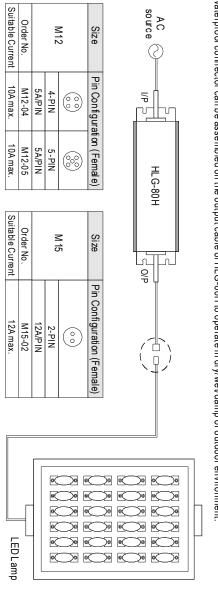


- Using a switch and relay can turn ON/OFF the lighting fixture.
 1.Output constant current level can be adjusted through output cable by connecting a resistance or 1∼10Vdc or 10V PWM signal between DIM+ and DIM-.
- 2. The LED lighting fixture can be turned ON/OFF by the switch.

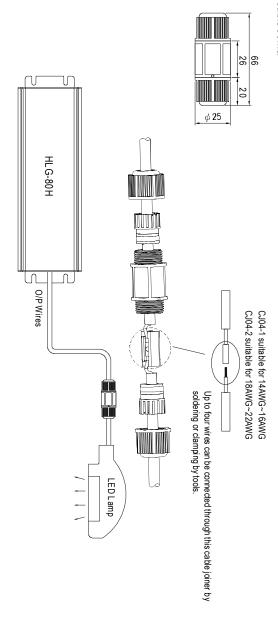
■ WATERPROOF CONNECTION

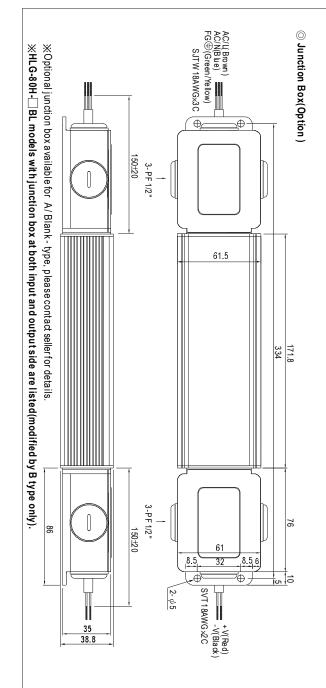
Waterproof connector

Waterproof connector can be assembled on the output cable of HLG-80H to operate in dry/wet/damp or outdoor environment



○ Cable Joiner





G-120H series



- Features:
 Universal AC input / Full range (up to 305VAC)
- Built-in active PFC function
- High efficiency up to 93.5%
- Protections: Short circuit / Over current / Over voltage / Over temperature
- Cooling by free air convection
- OCP point adjustable through output cable or internal potentiometer
- IP67 / IP65 design for indoor or outdoor installations

Three in one dimming function (1~10Vdc or PWM signal or resistance)

- Suitable for LED lighting and street lighting applications
- Compliance to worldwide safety regulations for lighting Suitable for dry / damp / wet locations























HLG-120H-12 A

<

T







Blank: IP67 rated. Cable for I/O connection.

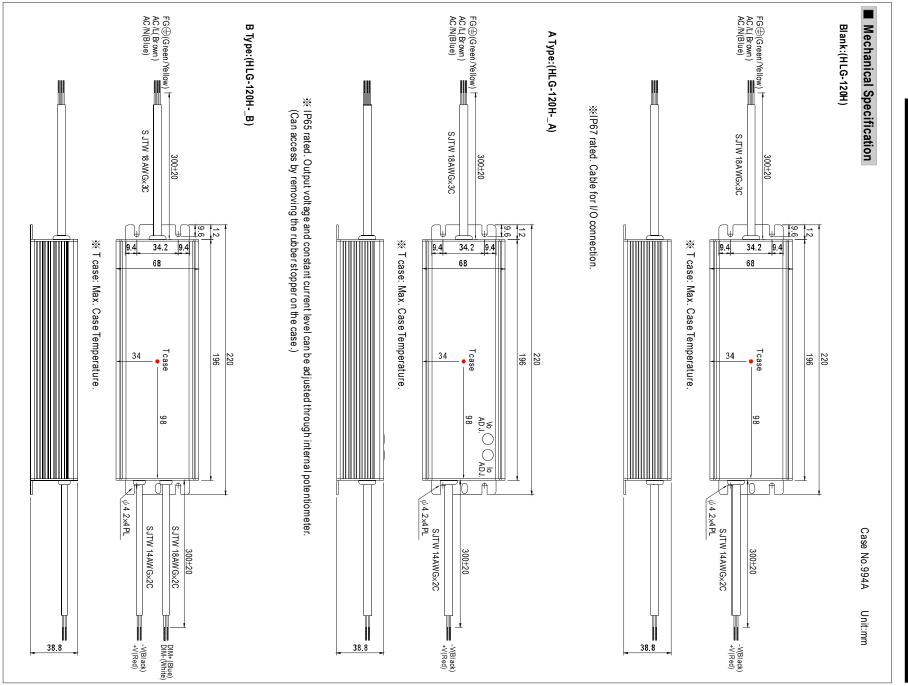
A: IP65 rated. Output voltage and constant current level can be adjusted through internal potentiometer.

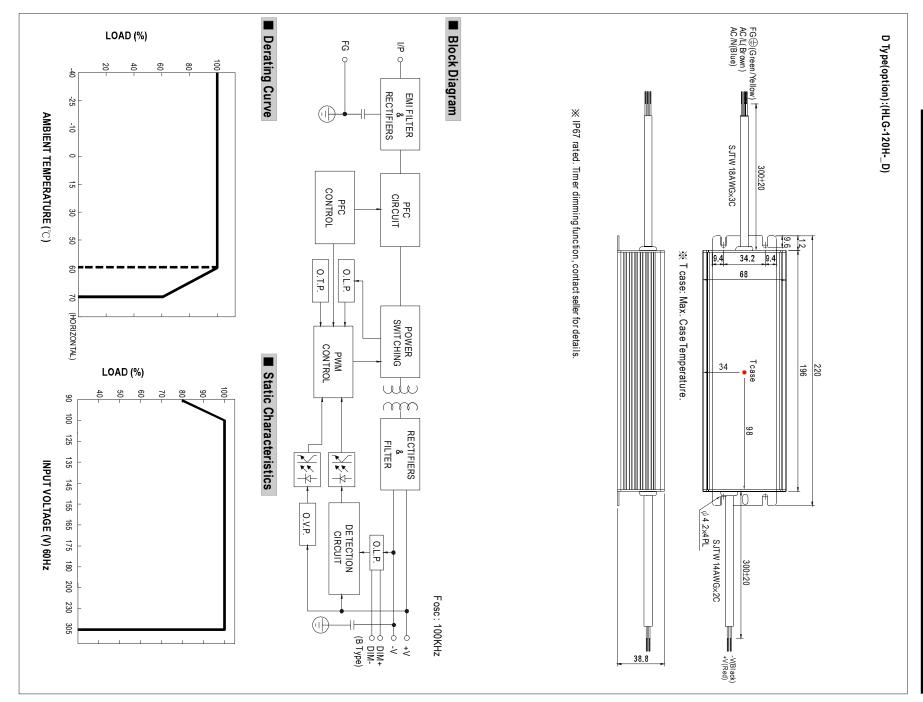
B: IP67 rated. Constant current level adjustable through output cable with 1~10Vdc or 10V PWM signal or resistance.

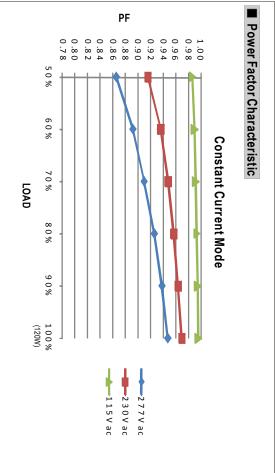
D (option, safety pending): IP67 rated. Timer dimming function, contact seller for details.

SPECIFICATION

SPECIFICATION	AICN									
MODEL		HLG-120H-12	HLG-120H-15	HLG-120H-20	HLG-120H-24	HLG-120H-30	HLG-120 H-36	HLG-120H-42	HLG-120H-48	HLG-120H-54
	DC VOLTAGE	12V	15V	20 V	24V	30V	367	42V	48V	54V
	RATED CURRENT	10A	8A	6A	5A	4A	3.4A	2.9A	2.5A	2.3A
	RATED POWER					120W	122.4W			124.2W
		15UMVP-P	d-dymosi	٥	ľ	ZUUMVP-p	ZUUM VP-P	9	٥	ZUUMVP-p
	VULIAGE AUJ. KANGE Note.5	Can be adjust	$10.8 \sim 13.5 \text{V} 13.5 \sim 17 \text{V} 17 \sim 22 \text{V} 22 \sim 27 \text{V}$	otentiometer A	three only	21 ~ 334	33 ~ 4 UV	30~400	43~53V	49 ~ 56V
OUTPUT	CURRENT ADJ. RANGE	5~ 10A	4~8A	3~6A		2~4A	1.7 ~ 3.4A	1.4~2.9A	1.2 ~ 2.5A	1.1 ~ 2.3A
	VOLTA GE TOLERANCE Note.3							±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%	±0.5%	也.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%
	SETUP, RISE TIME Note.7	2500ms, 50ms at full load		230VAC / 115VAC ; B	AC; Btype 2	type 2500ms, 200ms at 95% load	at 95% load	230VAC / 115VAC	/AC	
	HOLD UP TIME (Typ.)	12ms at full load	ad 230VAC / 115VAC	115VAC						
	VOLTAGE RANGE Note.4	90~305VAC	127 ~ 431VDC	VDC						
	FREQUENCY RANGE	47 ~ 63Hz								
	POWER FACTOR (Typ.)	PF>0.98/115V	PF>0.98/115 VAC, PF>0.95/230 VAC, PF>0.93/277 VAC at full load (Please refer to "Power Factor Characteristic" curve	30 VAC, PF>0.	93/277 VAC at f	ull load (Pleas	e refer to "Pow	er Factor Chara	acteristic" curv	е)
T	TOTAL HARMONIC DISTORTION	THD < 20% wh	THD < 20% when output loadin g \geq 50% at 115VAC/230VAC input and output loading \geq 75% at 277VAC input and \geq 75% at 277VA	din g≧50% at	115VAC/230V/	AC input and o	utput loading≧	≧75% at 277V/	AC input	
2	EFFICIENCY(Typ.)	92%	92%	93%	93%	93%	93%	93%	93.5%	93.5%
	AC CURRENT (Typ.)	1.4A / 115 VAC	0.6A/230VAC		0.55A / 277VAC					
	INRUSH CURRENT (Typ.)	COLD START	COLD START 60A(width=375 μ s measured at 50% lpæk) at 230VAC	us measured a	t 50% lpeak) at 2	230VAC				
	LEAKAGE CURRENT	<0.75mA / 277VAC	7VAC							
	OVER CURRENT	95 ~ 108%		:		:		-		
	SHORT CIRCUIT	Constant curr	Constant current limiting, recovers automatically after fault condition is removed	overs automat	ically after fault	t condition is re	moved			
PROTECTION		14 ~ 17V	18~21V	23 ~ 27V	28~34V	34 ~ 38V	41 ~ 46V	47~53V	54 ~ 63V	59 ~ 65V
	OVERVOLIAGE	Protection typ	Protection type: Shut down o/p voltage with auto-recovery or re-power on to recovery	o/p voltage with	auto-recovery	or re-power or	to recovery			
	OVED TEMBEDATIBE	85°C ±10°C (RTH2)	RTH2)							
		Protection typ	Protection type: Shut down o/p voltage, recovers automatically after temperature goes down	√p voltage, rec	overs automat	ically after tem	perature goes o	down		
	WORKING TEMP.	-40 ~ +70°C (I	-40 ~ +70 °C (Refer to "Derating Curve")	ing Curve")						
	WORKING HUMIDITY	20 ~ 95% RH	20 ~ 95% RH non-condensing	g						
ENVIR ONMENT	STORAGE TEMP., HUMIDITY	-40 ~ +80 °C, 10 ~ 95% RH	10~95% RH							
	TEMP. COEFFICIENT	±0.03%/°C (0 ~ 50°C)	~50°C)							
	VIBRATION	10 ~ 500Hz, 5	$10 \sim 500$ Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes	e, period for 7	2min. each a lo	ng X, Y, Z axes				
	SAFETY STAND ARDS Note.6	UL8750, CSA	UL8750, CSA C22.2 No. 250.0-08, ENEC, TUV EN61347-1, EN61347-2-13 independent IP65 or IP67, J61347-1,).0-08, ENEC,	TUV EN6134	7-1, EN61347-	2-13 independ	dent IP65 or IP	67, J61347-1,	
2 ATT TO 8		J61347-2-13	J61347-2-13 approved ; design refer to UL60950-1, TUV EN60950-1	sign refer to UI	_60950-1, TUV	/ EN60950-1				
0 P	ISOI ATION DESISTANCE		I/B O/B I/B EG O/B EG:100M Ohm s	OM Ohms (50)	1500VDC 135°C 130	70% BL				
Ī	EMC EMISSION	Compliance to	Opmolism on to ENSS015 ENSS000 (CISDEDO) Class B. ENS1000.3-2 Class C (> 50% load) : ENS100.0-3-3	55000/CISBR	22) Class R EN	VIS 1000-3-2 CI	ace C / >50%	load) - ENB100	D-3-3	
	EMC IMMUNITY	Compliance to	Compliance to EN6 1000-4-2.3 4.5 6.8 .11. EN6 1547 EN55024 light industry level (surge 4KV) criteria A	3.4.5.6.8.11 F	N6 1547, EN55	5024. light indu	stry level (sura	e 4KV). criteria	A	
	MTBF	192.2K hrs min.	n. MIL-HDB	MIL-HDBK-217F (25°C)				,		
OTHERS	DIMENSION	220*68*38 8m	1m (I *W*H)							
OTHERS	DIMENSION	220"68"38.8mm (L"W"H)	Im (L"W"H)	1						
	PACKING	1.12Kg; 12pcs	1.12Kg; 12pcs/14.4Kg/0.8CUFT	Ī						
NOTE		ly mentioned and at 20MHz of	are measured a f bandwidth by	at 230VAC inpusing a 12" to	ut, rated load a visted pair-wire	and 25°C of a terminated w	mbient temper ith a 0.1uf & 4	ature. 7uf parallel ca	pacitor.	
	 oretarize : includes set up toeratice, life regulation and load regulation. Derating may be needed under low input voltages. Please check the static characteristics for more details A type only. 	ider low input	regulation and voltages. Pleas	se check the s	tatic character	istics for more	details.			
		er to EN60598 asured at cold	-1, CNS15233 first start. Turr	, GB7000.1, F ning ON/OFF 1	CC part18.	oly may lead to	increase of t	ne set up time.		50 50 50 50 50 50 50 50 50 50 50 50 50 5
		al equipment r	manufacturers	must re-qualifi	y EMC Directiv	e on the com	olete installatio	n again.	2 2 2	Total by and

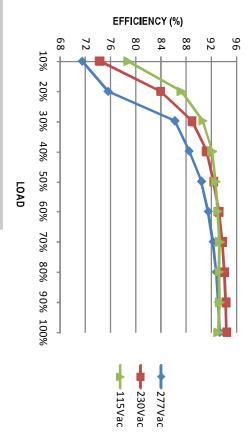






■ EFFICIENCY vs LOAD (48V Model)

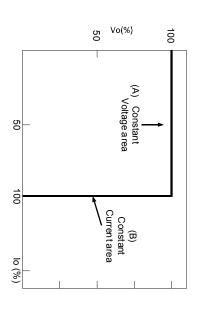
 ${\sf HLG-120H}$ series possess superior working efficiency that up to 93.5% can be reached in field applications.



■ DRIVING METHODS OF LED MODULE

There are two major kinds of LED drive method "direct drive" and "with LED driver".

Atypical LED power supply maye ither work in "constant voltage mode (CV) or constant current mode (CC)" to drive the LEDs. LED power supply with CV+ CC dharacteristic can be operated at both CV mode (with LED driver, at area (A) and CC mode (direct drive, at area (B).



Typical LED power supply I-V curve

■ DIMMING OPERATION (for B-type only)



X Built-in 3 in 1 dimming function, IP67 rated. Output constant current level can be adjusted through out put cable by connecting a resistance or

 $1 \sim 10 \, \text{Vdc}$ or $10 \, \text{V}$ PWM signal between DIM+ and DIM-

 $\ensuremath{\mathbb{X}}$ Please DO NOT connect "DIM-" to "-V ".

※ Reference resistance value for output current adjustment (Typical)

Percentage of rated current	Resistance value
10%	10KΩ
20%	20ΚΩ
30%	30КΩ
40%	30ΚΩ 40ΚΩ 50ΚΩ
50%	50KΩ
60%	
70%	60ΚΩ 70ΚΩ 80ΚΩ
80%	80KΩ
90%	90ΚΩ
100%	100ΚΩ
95%~108%	OPEN

 \times 1 ~ 10V dimming function for output current adjustment (Typical)

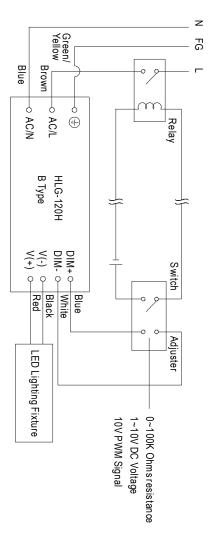
Dimming value	1	2٧	3V	4٧	5٧	6٧	7V	8٧	9V	10V	OPEN
Percentage of rated current	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	95%~108%
X 10V DWM signal for outbut current adjustment / Tunical). Frequency range :1	rrent adi	listman t	(Typical)	Fracilia	nov range	~ 1 00 H > ~ 3K H >	, 3K H-7				

(x) (y) (y) (y) (y) (y) (y) (y) (y) (y) (y			/ .) Pr				:				
Duty value	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	OPEN
Percentage of rated current	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	95%~108%

XUsing the built-in dimming function on B-type model can't turn the lighting fixture totally dark. Please refer to the connection method below to achieve 0% brightness of the lighting fixture connecting to the LED power supply unit.

% Direct connecting to LEDs is suggested, but is not suitable for using additional drivers

Dimming connection diagram for turning the lighting fixture ON/OFF:



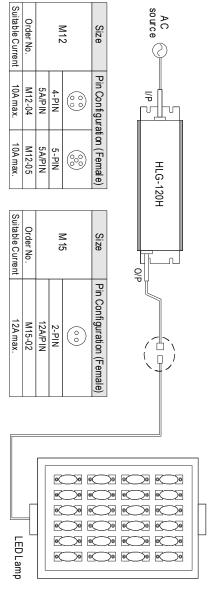
Using a switch and relay can turn ON/OFF the lighting fixture.

1. Output constant current level can be adjusted through output cable by connecting a resistance or 1~10Vdc or 10V PWM signal between DIM+ and DIM-2. The LED lighting fixture can be turned ON/OFF by the switch.

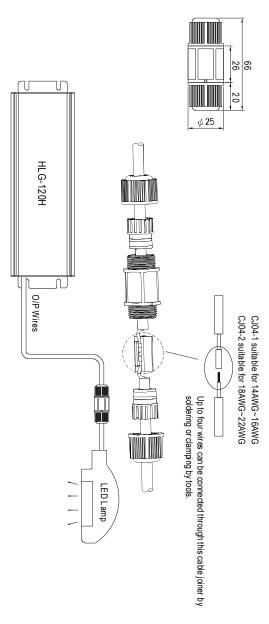
■ WATERPROOF CONNECTION

Waterproof connector

Waterproof connector can be assembled on the output cable of HLG-120H to operate in dry/wet/damp or outdoor environment.



© Cable Joiner



 \times CJ04 cable joiner can be purchased independently for user's own assembly.

