



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

HLG-120H series

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- 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
- 5 years warranty (Note.10)

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TAIWAN EXCELLENCE 2011

HLG-120H-12 A Blank : IP67 rated. Cable for I/O connection.

110 M

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

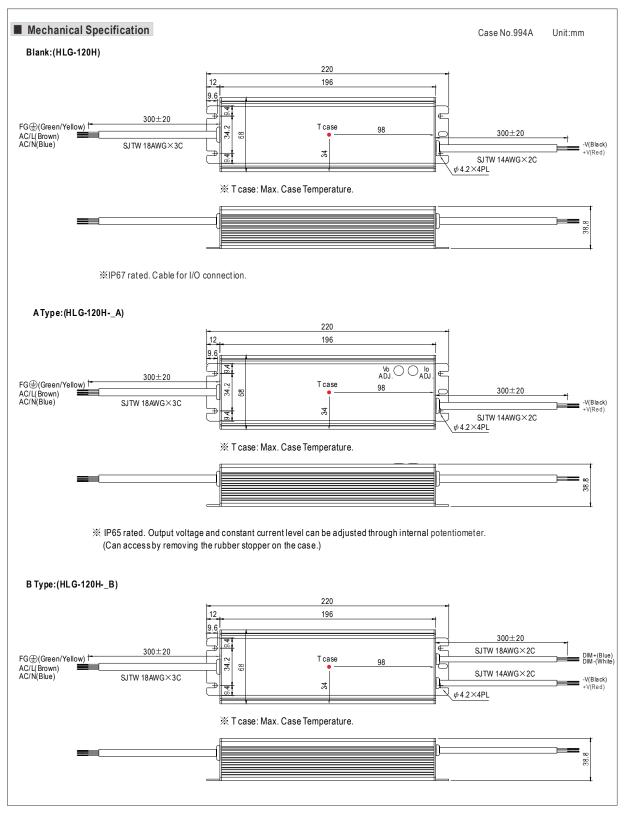
W SELV IP65 IP67 R c Us 🖉 🗷

- 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 MEAN WELL for details.

SPECIFICATION

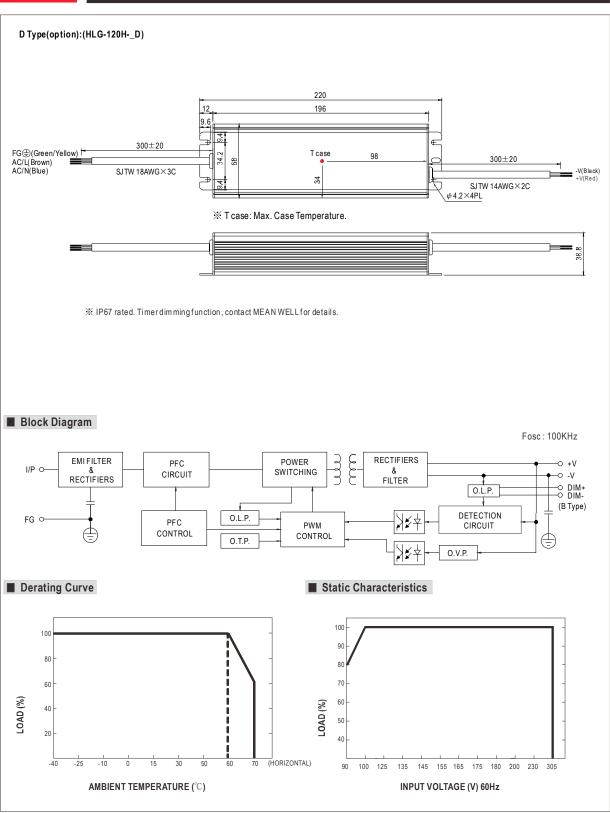
MODEL		HI G-120H-12	HLG-120H-15	HI G-120H-20	HLG-120H-24	HLG-120H-30	HLG-120H-36	HLG-120H-42	HLG-120H-48	HLG-120H-54			
MODEL								42V		-			
OUTPUT	DC VOLTAGE	12V	15V	20V	24V	30V	36V		48V	54V			
	CONSTANT CURRENT REGION Note.4		7.5 ~ 15V	10 ~ 20V	12 ~ 24V	15 ~ 30V	18 ~ 36V	21~42V	24~48V	27 ~ 54V			
	RATED CURRENT	10A	8A	6A	5A	4A	3.4A	2.9A	2.5A	2.3A			
	RATED POWER	120W	120W	120W	120W	120W	122.4W	121.8W	120W	124.2W			
	RIPPLE & NOISE (max.) Note.2		150mVp-p	150mVp-p	150mVp-p	200mVp-p	200mVp-p	200mVp-p	200mVp-p	200mVp-p 49 ~ 58V			
	VOLTAGE ADJ. RANGE Note.6												
	CURRENT ADJ. RANGE	Can be adjusted by internal potentiometer A type only											
		5~10A	4 ~ 8A	3 ~ 6A	2.5 ~ 5A	2~4A	1.7 ~ 3.4A	1.4 ~ 2.9A	1.2~2.5A	1.1 ~ 2.3A			
	VOLTAGE TOLERANCE Note.3		±2.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%			
	LINE REGULATION	$\pm 0.5\%$	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%			
	LOAD REGULATION	±2.0%	±1.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%			
	,	1200ms,50ms/115VAC 500ms,50ms/230VAC at full load ; B type 1200ms,200ms/115VAC 500ms,200ms/230VAC at 95% loa											
	HOLD UP TIME (Typ.)	12ms at full load 230VAC / 115VAC											
	VOLTAGE RANGE Note.5	90 ~ 305VAC 127 ~ 431VDC											
	FREQUENCY RANGE	47 ~ 63Hz											
INPUT	POWER FACTOR (Typ.)	PF>0.98/115VAC, PF>0.95/230VAC, PF>0.93/277VAC at full load (Please refer to "Power Factor Characteristic" curve)											
	TOTAL HARMONIC DISTORTION	THD<20% when output loading≧50% at 115VAC/230VAC input and output loading≧75% at 277VAC input											
	EFFICIENCY (Typ.)	92%	92%	93%	93%	93%	93%	93%	93.5%	93.5%			
	AC CURRENT (Typ.)	1.4A / 115VA	0.6A/2	30VAC 0.	.55A / 277 VAC								
	INRUSH CURRENT (Typ.)	COLD START 60A(twidth=375µ s measured at 50% Ipeak) at 230VAC											
	LEAKAGE CURRENT	<0.75mA/277VAC											
	OVER CURRENT	95~108%											
	OVER CORRENT	Protection type : Constant current limiting, recovers automatically after fault condition is removed											
	SHORT CIRCUIT	Constant curr	ent limiting, re	covers automa	tically after fau	It condition is n	emoved						
PROTECTION		14 ~ 17V	18~21V	23 ~ 27V	28 ~ 34V	34 ~ 38V	41~46V	47 ~ 53V	54 ~ 63V	59~65V			
	OVER VOLTAGE	Protection type : Shut down o/p voltage with auto-recovery or re-power on to recovery											
	OVER TEMPERATURE	Shut down o/p voltage, recovers automatically after temperature goes down											
	WORKING TEMP.	-40 ~ +70°C (Refer to "Derating Curve")											
	WORKING HUMIDITY	20 ~ 95% RH non-condensing											
ENVIRONMENT	STORAGE TEMP., HUMIDITY	-40 ~ +80°C, 10 ~ 95% RH											
	TEMP. COEFFICIENT	±0.03%/°C (0 ~ 50 °C)											
	VIBRATION	10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes											
	VIDICATION		,					dont ID65 or II	DET 161247 1	1			
	SAFETY STANDARDS Note.7	UL8750, CSA C22.2 No. 250.0-08, ENEC, TUV EN61347-1, EN61347-2-13 independent IP65 or IP67, J61347-1, J61347-2-13 approved ; design refer to UL60950-1, TUV EN60950-1											
SAFETY &	WITHSTAND VOLTAGE		KVAC I/P-F	<u> </u>	·								
EMC	ISOLATION RESISTANCE		G, 0/P-FG:10										
ENIC					-	N61000-3-2 C			00 2 2				
					, .			1.					
	EMC IMMUNITY MTBF	Compliance to EN61000-4-2,3,4,5,6,8,11, EN61547, EN55024, light industry level (surge 4KV), criteria A											
		192.2K hrs min. MIL-HDBK-217F (25°C) 220*68*38.8mm (L*W*H)											
OTHERS	DIMENSION		()	ICT									
	PACKING												
NOTE	 All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. Ripple & noise are measured at 20MHz of bandwidth by using a 12° twisted pair-wire terminated with a 0.1 uf & 47 uf parallel capacitor. Tolerance : includes set up tolerance, line regulation and load regulation. Please refer to "DRIVING METHODS OF LED MODULE". Derating may be needed under low input voltages. Please check the static characteristics for more details. A type only. Safety and EMC design refer to EN60598-1, CNS15233, GB7000.1, FCC part18. 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 performance will be affected by the complete installation, the final equipment manufacturers must re-qualify EMC Directive on the complete installation again. Refer to warranty statement. To fulfill requirements of the latest ErP regulation for lighting fixtures, this LED power supply can only be used behind a switch without permanently 												



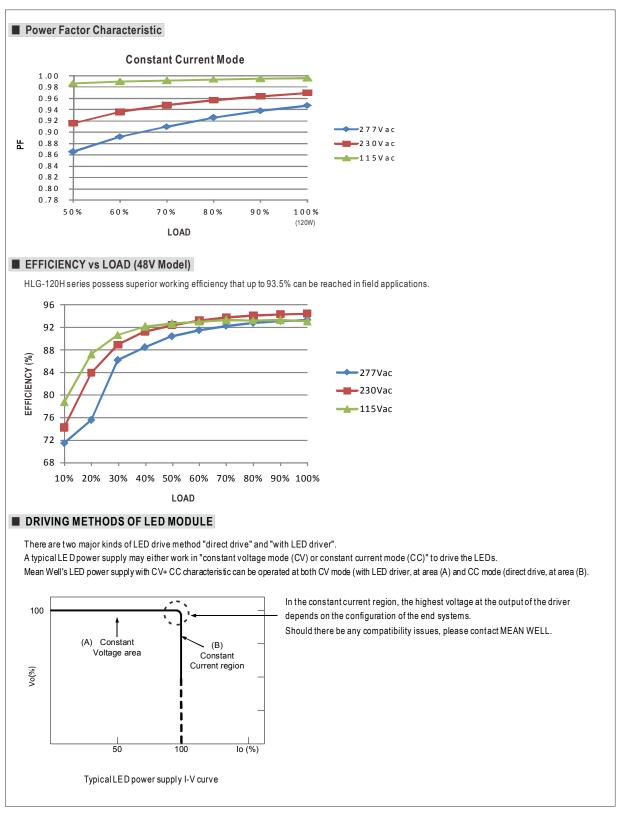




120W Single Output Switching Power Supply



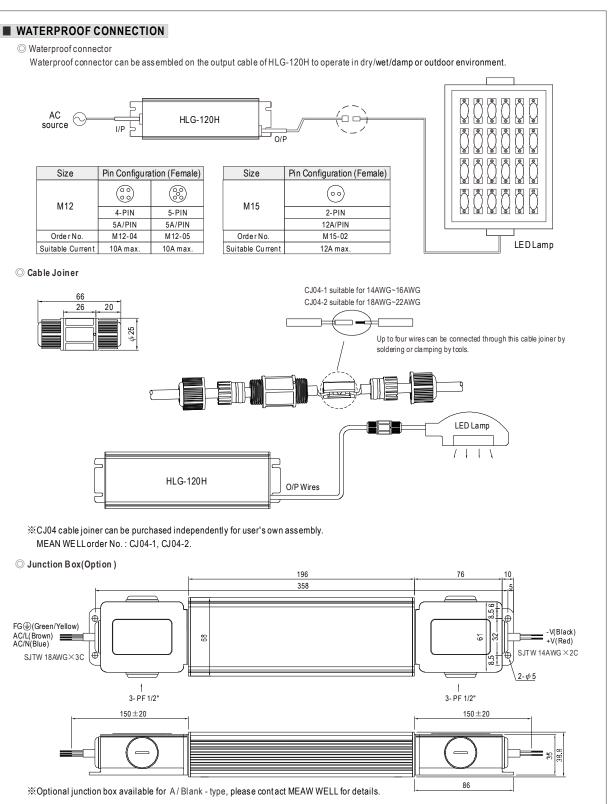






DIMMING OPERATION (1)	or B-type on	iy) 										
FG⊕(Green/Yellow) AC/L(Brown) AC/N(Blue)		HLG-120H									DIM + (Blue) DIM - (White) -V(Black) +V(Red)	
 ※ Built-in 3 in 1 dimming function, IP67 rated. Output constant current level can be adjusted through output cable by connecting a resistance or 1 ~ 10Vdc or 10V PWM signal between DIM+ and DIM ※ Please DO NOT connect "DIM-" to "-V". ※ Reference resistance value for output current adjustment (Typical) 												
value Multiple drivers	10K Ω/N 20K Ω/N					-	80K Ω /N		100KΩ/N			
dimming operation) Percentage of rated current	10% 20%	30%	40%	50%	60%	70%	80%	90%	100%	95%~108%		
× 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%	95%~108%		
※ 10V PWM signal for output c	urrentadjustmen	t (Typical)): Freque	ncyrange	e:100Hz	~3KHz					-	
Duty value 10%		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%		
※Direct connecting to LEDs is Dimming connection diagram fo N FG L				-	ional driv	ers.						
Rel Rel	, , ,	Switch Adjuster 10K~100 K Ohms resistance 1~10V DC Voltage 10V PWM Signal										
Green/ Yellow Brown Blue O AC/	В Туре		DIM+ c DIM- c V(-) c V(+) c	Black		ED Lighti	ng Fixtur	9				
Using a switch and relay can tur 1.Output constant current level o 2.The LED lighting fixture can b	an be adjusted th	nrough ou	tput cabl	e by conn	ecting a r	esistano	e or 1~10	Vdc or 10)V PWM s	ignal betweer	n DIM+ and	I DIM





Mouser Electronics

Authorized Distributor

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Mean Well:

<u>HLG-120H-12</u> <u>HLG-120H-12A</u> <u>HLG-120H-12B</u> <u>HLG-120H-15</u> <u>HLG-120H-15A</u> <u>HLG-120H-15B</u> <u>HLG-120H-20</u> <u>HLG-120H-20A</u> <u>HLG-120H-20B</u> <u>HLG-120H-24</u> <u>HLG-120H-24A</u> <u>HLG-120H-24B</u> <u>HLG-120H-30</u> <u>HLG-120H-30A</u> <u>HLG-120H-30A</u> <u>HLG-120H-30A</u> <u>HLG-120H-30A</u> <u>HLG-120H-30A</u> <u>HLG-120H-30A</u> <u>HLG-120H-30A</u> <u>HLG-120H-30A</u> <u>HLG-120H-42B</u> <u>HLG-120H-42B</u> <u>HLG-120H-42B</u> <u>HLG-120H-42B} <u>HLG-120H-48A</u> <u>HLG-120H-48A} <u>HLG-120H-48B</u> <u>HLG-120H-54A} <u>HLG-120H-54AB</u> <u>HLG-120H-54AB} <u>HLG-120H-42AB</u> <u>HLG-120H-30AB} <u>HLG-120H-42AB} HLG-120H-30AB</u> <u>HLG-120H-42AB} HLG-120H-30AB</u> <u>HLG-120H-42AB} HLG-120H-30AB</u> <u>HLG-120H-42AB</u> <u>HLG-120H-42AB} HLG-120H-30AB</u> <u>HLG-120H-42AB</u> <u>HLG-120H-42AB} HLG-120H-30AB} HLG-120H-48AB</u></u></u></u></u></u>