





■ Features :

- Universal AC input I Full range (up to 305VAC)
- Built-in active PFC function
- High efficiency up to 93.5%
- Protections: Short circuit I Over current I Over voltage I Over temperature
- Cooling by free air convection
- OCP point adjustable through output cable or internal potentiometer
- IP67 I 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 I damp I wet locations
- Type "HL" for use in class I , Division 2 hazardous(Classified) location luminaires
- 7 years warranty (Note.10)



TAIWAN

HLG-120H-12 A Blank: IP67 rated. Cable for IIO connection.

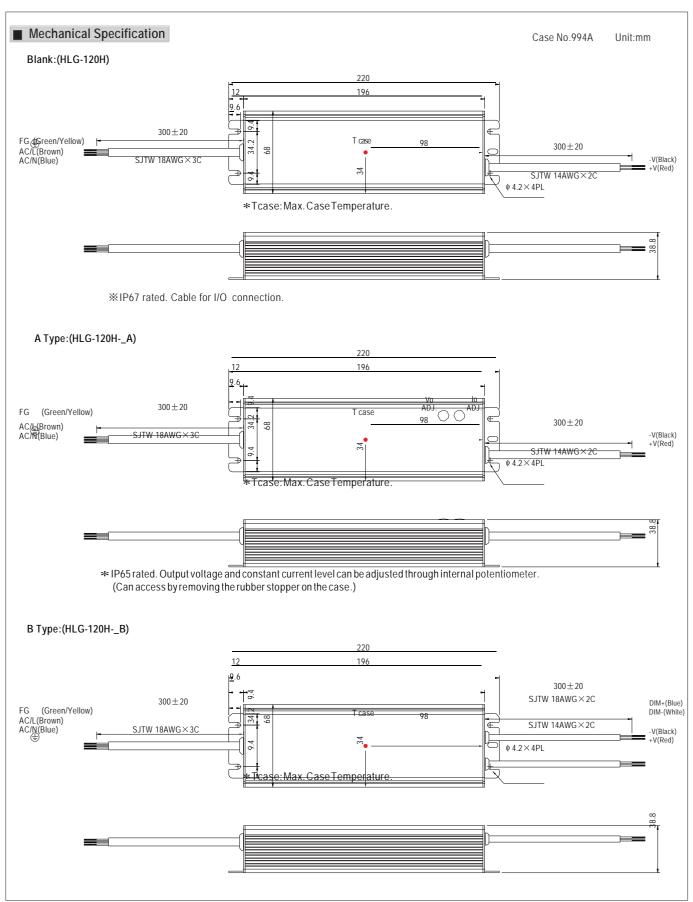
- A: IP65 rated. Output voltage and constant current level can be adjusted through internal potentiometer.
- B: IP67 rated. Constant current level adjustable through output cable with 1-10Vdc or 10V PWM signal or resistance.

SPECIFICATION

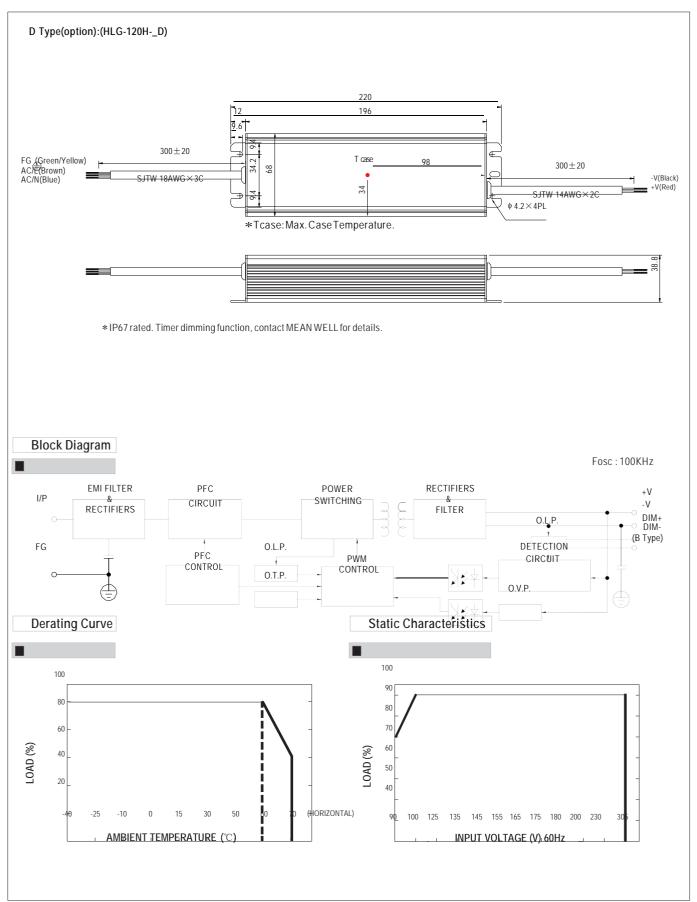
MODEL		HLG-120H-12	HLG-120H-15	HLG-120H-20	HLG-120H-24	HLG-120H-30	HLG-120H-36	HLG-120H-42	HLG-120H-48	HLG-120H-54					
							1								
	CONSTANT CURRENT REGION Note.4	6 ~12V	7.5 ~ 15V	10 ~ 20V	12 ~ 24V	15 ~ 30V	18 ~ 36V	21 ~ 42V	24 ~ 48V	27 ~ 54V					
	RATED CURRENT	10A	8A	6A	5A	4A	3.4A	2.9A	2.5A	2.3A					
	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	150mVp-p	200mVp-p	200mVp-p	200mVp-p	200mVp-p	200mVp-p					
	VOLTAGE ADJ. RANGE Note.6	10.8 ~ 13.5V	13.5 ~ 17V	17 ~ 22V	22 ~ 27V	27 ~ 33V	33 ~ 40V	38 ~ 46V	43 ~ 53V	49 ~ 58V					
OUTPUT	CURRENT ADJ. RANGE	Can be adjusted 5 ~ 10A	ed by internal po	otentiometer A t	ype only 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	±2.5%	±2.0%	±1.0%	±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%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%					
	SETUP, RISE TIME Note.8			0ms,50ms/230	1				s,200ms/230V						
	HOLD UP TIME (Typ.)	12ms at full loa			VAC at lall loa	a, b type 1200	1113,2001113/1110	7 VAC 300111	3,2001113/2301	AC at 7570 fc					
	VOLTAGE RANGE Note.5 FREQUENCY RANGE	5 90 ~ 305VAC 127 ~ 431VDC 47 ~ 63Hz													
-	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) THD< 20% when output loading ≥ 50% at 115VAC/230VAC input and output loading ≥ 75% at 277VAC input													
	TOTAL HARMONIC DISTORTION				1			1		02 50/					
NPUT	EFFICIENCY (Typ.)	92% 92% 93% 93% 93% 93% 93% 93.5% 93.5%													
	AC CURRENT (Typ.)	1.4A / 115VAC													
	INRUSH CURRENT (Typ.) MAX. No. of PSUs on 16A	COLD START 60A((width=375 µ s measured at 50% peak) at 230VAC													
	CIRCUIT BREAKER LEAKAGE CURRENT	5 units (circuit breaker of type B) / 9 units (circuit breaker of type C) at 230VAC <0.75mA / 277VAC													
	LEANAGE CURRENT														
	OVER CURRENT	95 ~ 108% Protection type a Constant current limiting recovers outproductly offer fault condition is removed.													
		Protection type: Constant current limiting, recovers automatically after fault condition is removed													
	SHORT CIRCUIT	Constant current limiting, recovers automatically after fault condition is removed 14 ~ 17V													
PROTECTION	OVER VOLTAGE	77 77 78 78 78 78 78 78 78 78 78 78 78 7													
		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		non-condensir	ng											
ENVIRONMENT	STORAGE TEMP., HUMIDITY	-40 ~ +80°C, 1	10 ~ 95% RH												
	TEMP. COEFFICIENT	±0.03%/℃ (0	~50°C)												
	VIBRATION			le, period for 7											
	SAFETY STANDARDS Note.7			2.2 No. 250.0- sign refer to UL			, EN61347-2-1	13 independen	t IP65 or IP67	, J61347-1,					
SAFETY &	WITHSTAND VOLTAGE	I/P-O/P:3.75k	• • • • • • • • • • • • • • • • • • • •		/P-FG:1.5KVA										
EMC	ISOLATION RESISTANCE			0M Ohms / 500											
	EMC EMISSION			155022 (CISPR			lass C. (≥50%	load) · FN610	100-3-3						
	EMC IMMUNITY			,3,4,5,6,8,11, E											
	MTBF	192.2K hrs mi		3K-217F (25°C)		02 17 light indu	out lover (ourg	o men							
OTHERS	DIMENSION	220*68*38.8m		JK-2171 (25 C)											
JIIILKS			, ,	LIFT											
NOTE	PACKING 1.12Kg; 12pcs/14.4Kg/0.8CUFT 1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. 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. Derating may be needed under low input voltages. Please check the static characteristics for more details. 6. A type only. 7. Safety and EMC design refer to EN60598-1, CNS15233, GB7000.1, FCC part18. 8. Length of set up time is measured at cold first start. Turning ONIOFF the power supply may lead to increase of the set up time. 9. 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. 10. Refer to warranty statement.														

11. To fulfill requirements of the latest ErP regulation for lighting fixtures, this LED power supply can only be used behind a switch without permanently



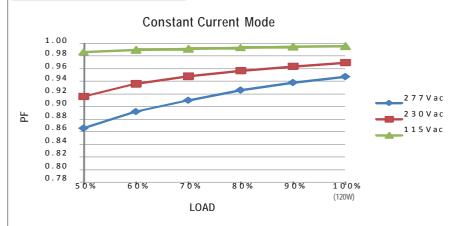






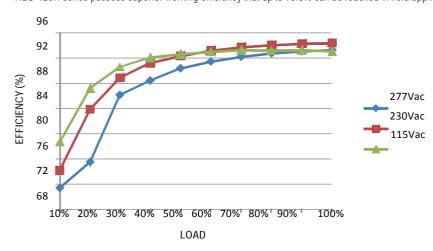


■ Power Factor Characteristic



EFFICIENCY vs LOAD (48V Model)

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

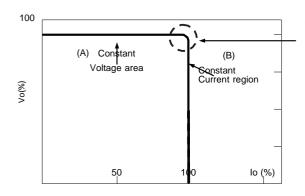


DRIVING METHODS OF LED MODULE

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

A typical LED power supply may either work in "constant voltage mode (CV) or constant current mode (CC)" to drive the LEDs.

Mean Well's LED power supply with CV+ CC characteristic 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

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 MEANWELL.



■ DIMMING OPERATION (for B-type only)



- ★ 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)

Resistance	Single driver	10K Ω	20K Ω	30K Ω	40K Ω	50K Ω	60K Ω	70K Ω	80K Ω	90K Ω	100K Ω	OPEN
value	Multiple drivers (N=driverquantity for synchronized dimming operation)	10K Ω /N	20K Ω /N	30K Ω /N	40K Ω /N	50K Ω /N	60K Ω /N	70K Ω /N	80K Ω /N	90K Ω /N	100K Ω /N	
Percentage	e 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%

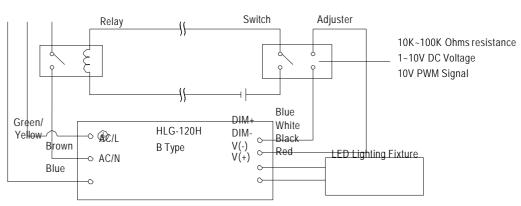
* 10V PWM signal for output current adjustment (Typical): Frequency range: 100Hz ~ 3KHz

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%

- **Using 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 $\mbox{ON/OFF}$:

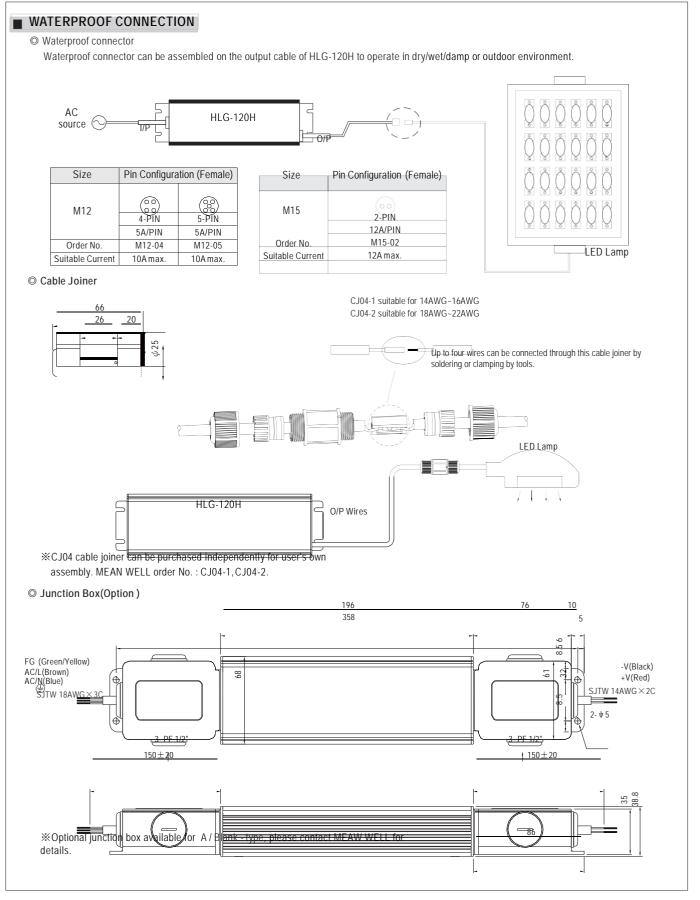




Using a switch and relay can turn ON/OFF the lighting fixture.

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







	Mean Well Part		Mean Well Part		
RS Part Number	Number	RS Part Number	Number		
7211875	HLG-120H-12B	7382359	HLG-120H-12A		
7211878	HLG-120H-15B	7382352	HLG-120H-15A		
7211881	HLG-120H-24B	7382365	HLG-120H-24A		
7211884	HLG-120H-30B	7382368	HLG-120H-30A		
7211888	HLG-120H-36B	7382362	HLG-120H-36A		
7211890	HLG-120H-48B	7382374	HLG-120H-48A		