



■ Features :

- Constant current design
- Universal AC input / Full range (up to 305VAC)
- · Built-in active PFC function
- High efficiency up to 94%
- Protections: Short circuit / Over voltage / Over temperature
- · Cooling by free air convection
- · Output current adjustable through output cable or internal potentiometer
- IP67 / IP65 design for indoor or outdoor installations
- Three in one dimming function (1~10Vdc or 10V PWM signal or resistance)
- Suitable for dry / damp / wet locations
- 5 years warranty (Note.5)



HLG-120H-C350 A : IP65 rated. Constant current level can be adjusted through internal potentiometer.

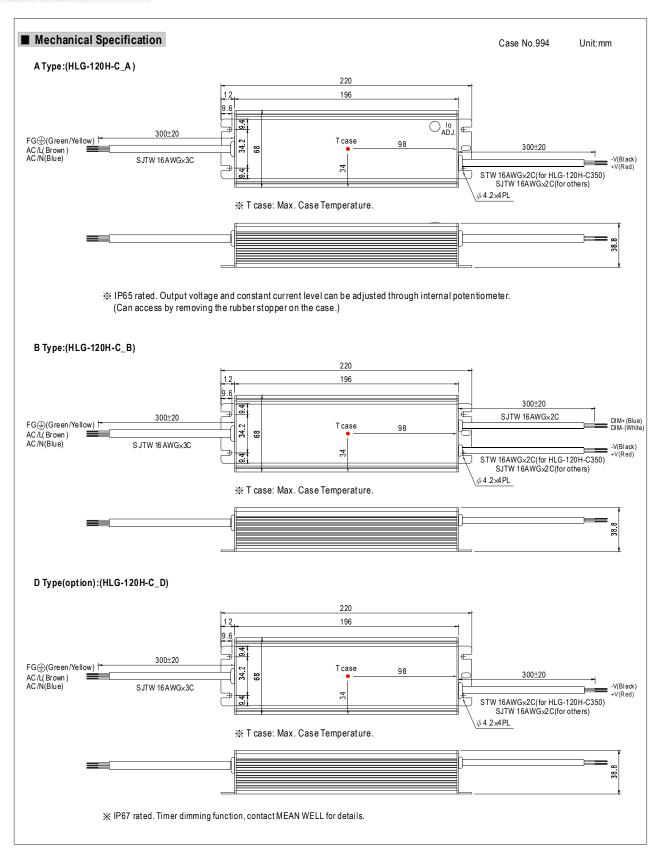
 $B: IP67\ rated.\ Constant\ current\ level\ adjustable\ through\ output\ cable\ with\ 1\sim10Vdc\ or\ 10V\ PWM\ signal\ or\ resistance.$

D (option): IP67 rated. Timer dimming function, contact MEAN WELL for details.

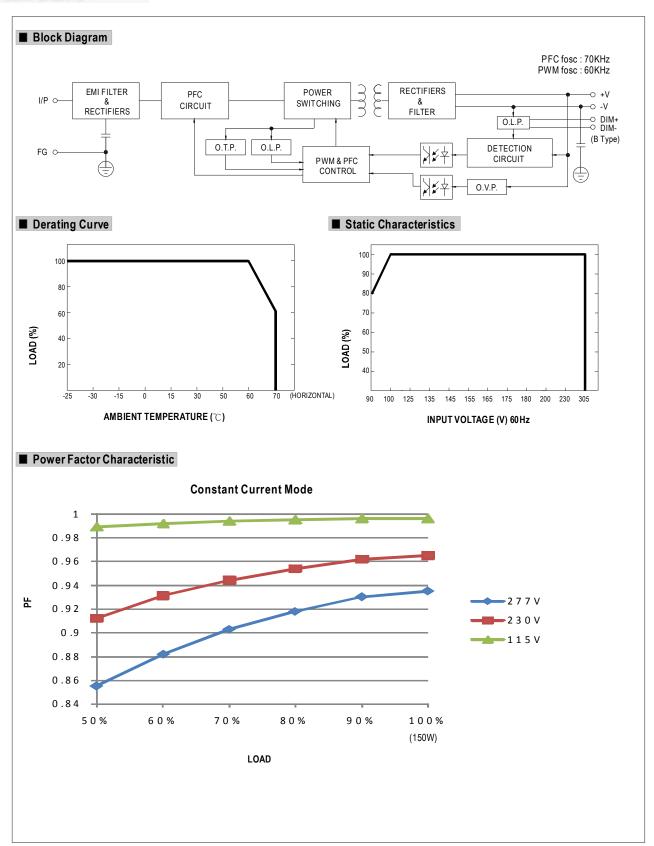
SPECIFICATION

MODEL		HLG-120H-C350	HLG-120H-C500	HLG-120H-C700	HLG-120 H-C1050	HLG-120H-C1400							
RATED CURRENT		350 mA	500mA	700mA	1050mA	1400mA							
	CURRENT ACCURACY	±5.0%											
	CONSTANT CURRENT REGION Note.6	215 ~ 430V	150V ~ 300V	107V ~ 215V	74V ~ 148V	54V ~ 108V							
	RATED POWER	150.5W	150W	150.5W	155.4W	151.2W							
Ī	RIPPLE CURRENT	±5%											
OUTPUT	RIPPLE & NOISE	2Vp-p	1Vp-p										
Ī	CURRENT ADJ. RANGE	Can be adjusted by internal potentiometer (A type only)											
		175 ~ 350mA	250 ~ 500mA	350 ~ 700mA	525 ~ 1050mA	700 ~ 1400mA							
	LINE REGULATION	±1%	±1%	±1%	±1%	±1%							
İ	SETUP, RISE TIME	2000ms, 80ms / 115VAC	2000ms, 80ms / 115VAC at full load 1000ms, 80ms / 230VAC at full load										
	HOLD UP TIME (Typ.)	16ms at full load 230VAC / 115VAC											
	VOLTAGE RANGE Note.2	90 ~ 305VAC 127VDC ~ 431VDC											
	FREQUENCY RANGE	47 ~ 63Hz											
İ	POWER FACTOR (Typ.)	PF>0.98/115VAC, PF>0.96/230VAC, 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											
INPUT	EFFICIENCY (Typ.)	94%	94%	94%	94%	93.5%							
Ī	AC CURRENT (Typ.)	1.6A / 115VAC 0.8	8 A / 230VAC 0.7	A / 277VAC	_								
İ	INRUSH CURRENT (Typ.)	COLD START 50A(twidth=600;\(\alpha\) s measured at 50% lpeak) at 230VAC											
	LEAKAGE CURRENT	<0.75mA/277VAC											
	SHORT CIRCUIT	Constant current limiting, recovers automatically after fault condition is removed											
		475~495V	335 ~ 355V	240 ~ 260V	165 ~ 175V	120 ~ 130V							
PROTECTION	OVER VOLTAGE	Protection type : Shut do		o-recovery or re-power o		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1							
		85℃±10℃ (RTH2)											
	OVER TEMPERATURE	Protection type: Shut down o/p voltage, recovers automatically after temperature goes down											
	WORKING TEMP.	-25 ~ +70°C (Refer to "Derating Curve")											
ļ	WORKING HUMIDITY	10 ~ 95% RH non-condensing											
-	STORAGE TEMP., HUMIDITY	-40 ~ +80°C, 10 ~ 95% RH											
- H	TEMP. COEFFICIENT	±0.03%/°C (0~50°C)											
-	VIBRATION	10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes											
	SAFETY STANDARDS Note.3												
1	WITHSTAND VOLTAGE	//P-0/P:3.75KVAC //P-FG:2KVAC 0/P-FG:0.5KVAC											
SAFETY &	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C / 70% RH											
EMC ⊢	EMC EMISSION	Compliance to EN55015, EN61000-3-2 Class C (≥50% load); EN61000-3-3											
-	EMC IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11, EN61547, light industry level (surge L,N-FG: 4KV), criteria A											
	MTBF		HDBK-217F (25°C)	,	.g. = ,. 7 · 0. · · · · /, ontonu /								
	DIMENSION	220*68*38.8mm (L*W*H)											
F	PACKING	1.04Kg; 12pcs/13.5Kg/0.	,										
NOTE	 All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. Derating may be needed under low input voltages. Please check the static characteristics for more details. Safety and EMC design refer to EN60598-1, CNS15233, GB7000.1. 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. Constant current operation region is within 50% ~100% rated output voltage. This is the suitable operation region for LED related applications, but please 												
	5. Refer to warranty statemen	t. region is within 50% ~100	0% rated output voltage	,	ration region for LED relate	ed applications,							



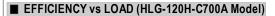




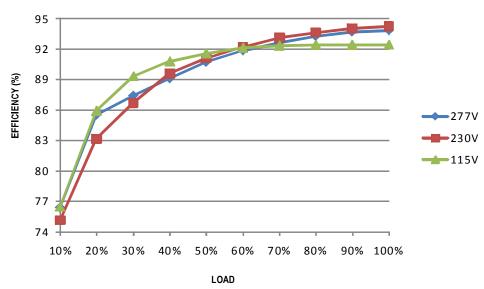


MEAN WELL

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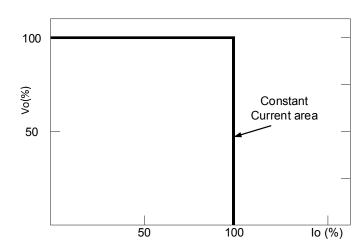


HLG-120H-C series possess superior working efficiency that up to 94% can be reached in field applications.



■ DRIVING METHODS OF LED MODULE

A typical LED power supply may work in "constant current mode (CC)" to drive the LEDs. Mean Well's LED power supply with CC characteristic can be operated at CC mode (direct drive).



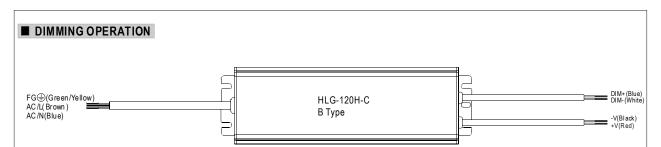
Typical LED power supply I-V curve



90%

100%

102%~108%



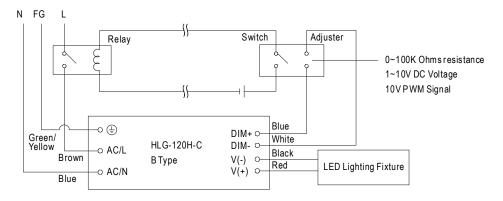
- ※ Please DO NOT connect "DIM-" to "-V".
- ※ Reference resistance value for output current adjustment (Typical)

Resistance value	10K Ω	20K Ω	30K Ω	40K Ω	50K Ω	60K Ω	70K Ω	80K Ω	90ΚΩ	100K Ω	OPEN
Percentage of rated current	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	102%~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% × 10V PWM signal for output current adjustment (Typical): Frequency range: 100 Hz ~ 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%	102%~108%

- **Wusing 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.
- $\fint \fint
Dimming connection diagram for turning the lighting fixture ON/OFF:



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

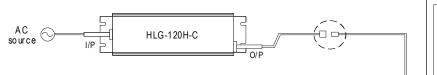
- 1. Output constant current level can be adjusted through output cable by connecting a resistance or 1~10V dc or 10V PWM signal between DIM+ and DIM-
- 2.The LED lighting fixture can be turned ON/OFF by the switch.



■ WATERPROOF CONNECTION

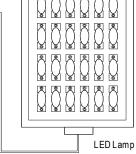
 $\ \ \, \bigcirc \, \, Water proof \, connector \, \,$

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

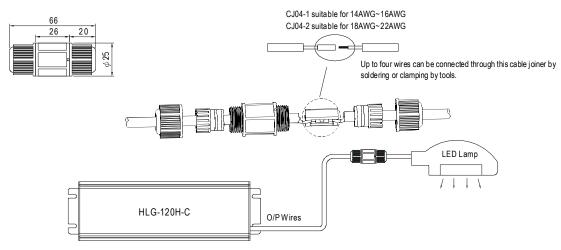


Size	Pin Configuration (Female)					
M12	00	%				
IVITZ	4-PIN	5-PIN				
	5A/PIN	5A/PIN				
Order No.	M12-04	M12-05				
Suitable Current	10A max.	10A max.				

Size	Pin Configuration (Female)					
M 15	00					
IVI IS	2-PIN					
	12A/P IN					
Order No.	M15-02					
Suitable Current	12A max.					



O Cable Joiner



%CJ04 cable joiner can be purchased independently for user's own assembly. MEAN WELL or der No.: CJ04-1, CJ04-2.