

### 150W Single Output LED Power Supply

# HLG-120H-C series



- 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-C350A
 A : IP65 rated. 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.

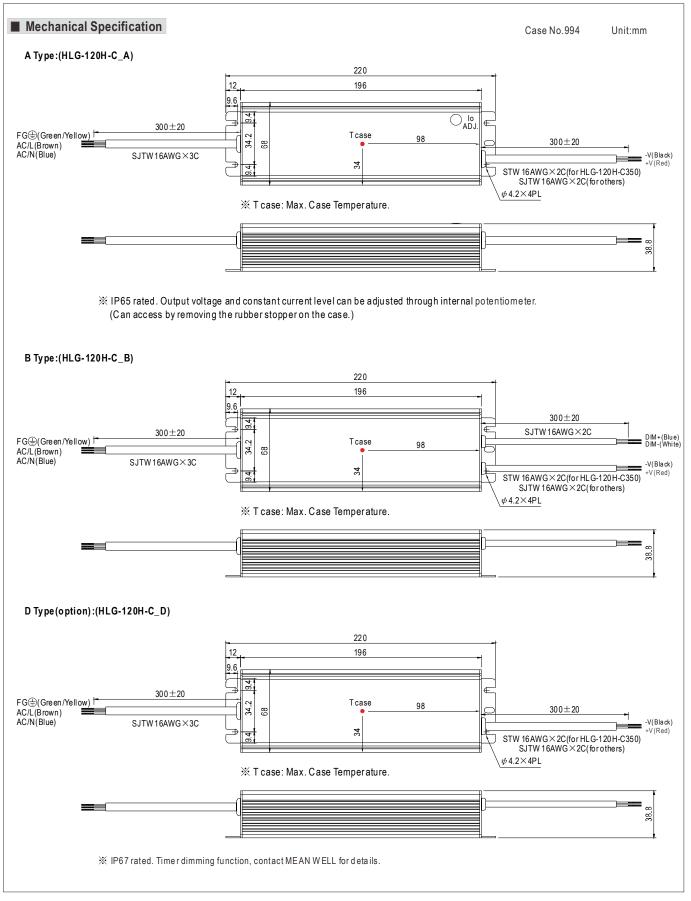
 D (option) : IP67 rated. Timer dimming function, contact MEAN WELL for details.

#### **SPECIFICATION**

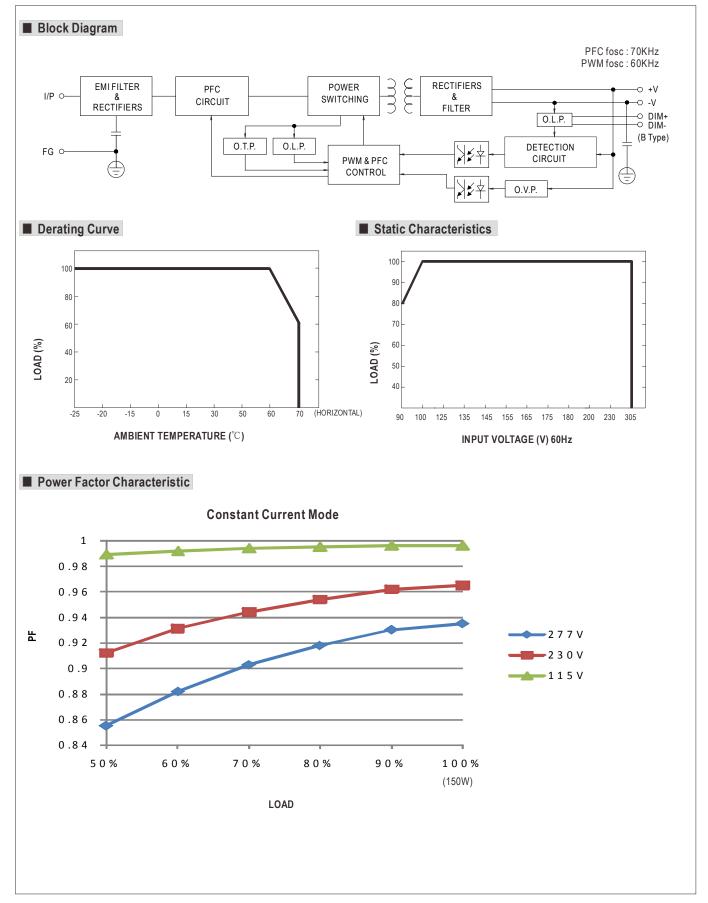
MODEL		HLG-120H-C350	HLG-120H-C500	HLG-120H-C700	HLG-120H-C1050	HLG-120H-C1400
OUTPUT	RATED CURRENT	350mA	500mA	700mA	1050mA	1400mA
	CURRENT ACCURACY	±5.0%				
	CONSTANT CURRENT REGION Note.6	215~430V	150V ~ 300V	107V ~ 215V	74V ~ 148V	54V ~ 108V
	RATED POWER	150.5W	150W	150.5W	155.4W	151.2W
	RIPPLE CURRENT	±5%				
	RIPPLE & NOISE	2Vp-p	1.5Vp-p	1Vp-p	1Vp-p	1Vp-p
	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%
	SETUP, RISE TIME	1000ms, 80ms / 115VAC at full load 500ms, 80ms / 230VAC at full load				
	HOLD UP TIME (Typ.)	16ms at full load 230VAC / 115VAC				
INPUT	VOLTAGE RANGE Note.2	90 ~ 305VAC 127VDC ~ 431VDC				
	FREQUENCY RANGE	47 ~ 63Hz				
	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				
	EFFICIENCY (Typ.)	94%	94%	94%	94%	93.5%
	AC CURRENT (Typ.)	1.6A / 115VAC 0.	8 A / 230VAC 0.7	A/277VAC	L	
	INRUSH CURRENT (Typ.)	COLD START 50A(twidth=600,⊭s measured at 50% Ipeak) at 230VAC				
	LEAKAGE CURRENT	<0.75mA / 277VAC				
PROTECTION	SHORT CIRCUIT	Constant current limiting, recovers automatically after fault condition is removed				
		475~495V	335 ~ 355V	240~260V	165 ~ 175V	120 ~ 130V
	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				
ENVIRONMENT	WORKING TEMP.	-25 ~ +70°C (Refer to "Derating Curve")				
	WORKING HUMIDITY	10 ~ 95% RH non-condensing				
	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				
SAFETY & EMC	SAFETY STANDARDS Note.3	UL8750, CSA C22.2 No. 250.12-13, ENEC EN61347-1, EN61347-2-13, EN62384 independent, IP65 or IP67 approved				
	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC I/P-FG:2KVAC O/P-FG:1.5KVAC				
	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C / 70% RH				
	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				
OTHERS	MTBF	191.1K hrs min. MIL-HDBK-217F (25°C)				
	DIMENSION	220*68*38.8mm (L*W*H)				
	PACKING	1.04Kg; 12pcs/13.5Kg/0	,			
NOTE	<ol> <li>All parameters NOT special</li> <li>Derating may be needed ur</li> <li>Safety and EMC design ref</li> <li>The power supply is consid complete installation, the fir</li> <li>Refer to warranty statemen</li> <li>Please refer to "DRIVING M</li> </ol>	Illy mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. Inder low input voltages. Please check the static characteristics for more details. Fer to EN60598-1, CNS15233, GB7000.1. Hered as a component that will be operated in combination with final equipment. Since EMC performance will be affected by the nal equipment manufacturers must re-qualify EMC Directive on the complete installation again.				



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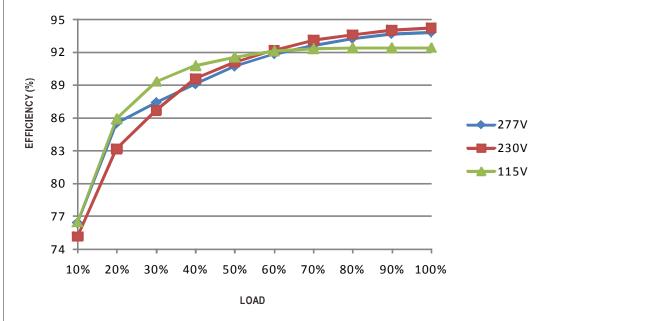






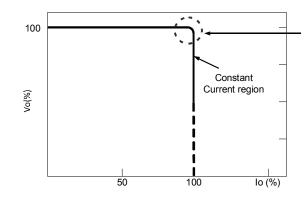


HLG-120H-C series possess superior working efficiency that up to 94% can be reached in field applications.



### 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).



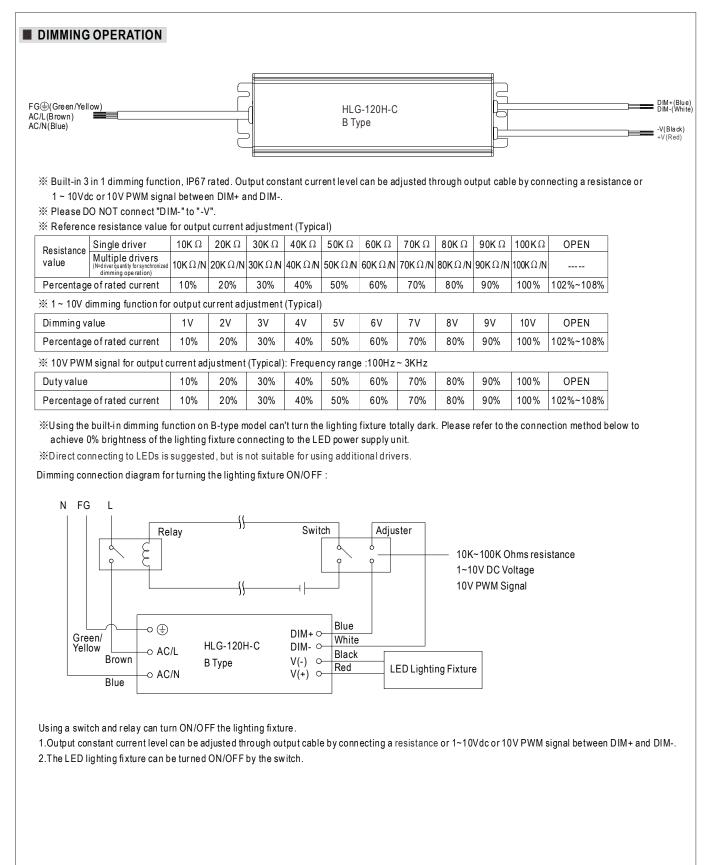
Typical LED power supply I-V curve

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.



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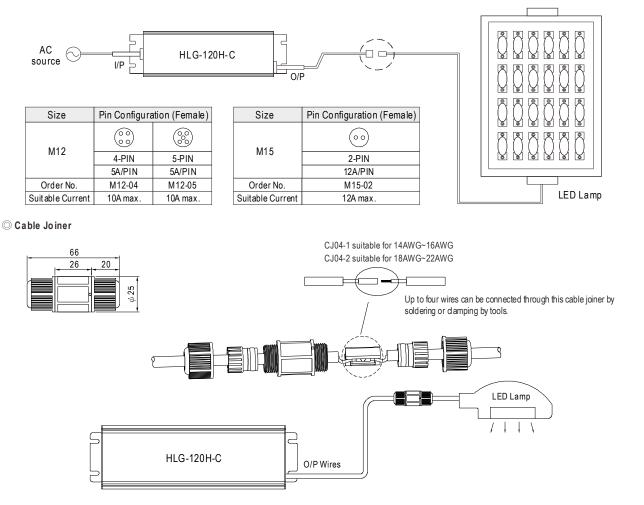




### WATERPROOF CONNECTION

#### ◎ Waterproof connector

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



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