

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-C350 A
 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.

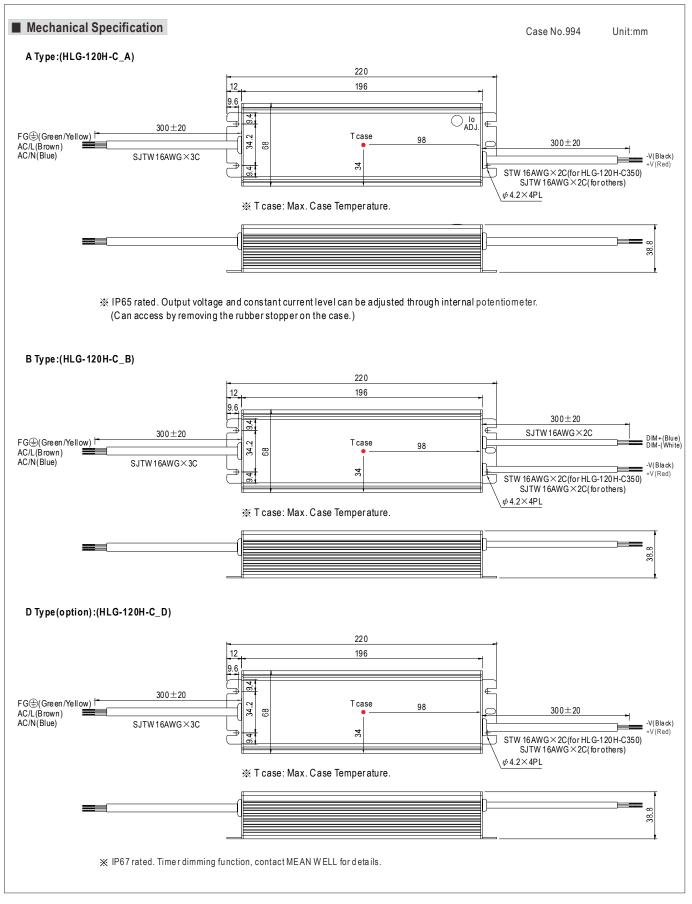
 D (option) : IP67 rated. Timer dimming function, contact MEAN WELL for details.

SPECIFICATION

OUTPUT	RATED CURRENT CURRENT ACCURACY CONSTANT CURRENT REGION Note.6 RATED POWER RIPPLE CURRENT RIPPLE & NOISE CURRENT ADJ. RANGE	150.5W ±5% 2Vp-p	500mA 150V ~ 300V 150W 1.5Vp-p	700mA 107V ~ 215V 150.5W	1050mA 74V ~ 148V	1400mA	
OUTPUT	CONSTANT CURRENT REGION Note.6 RATED POWER RIPPLE CURRENT RIPPLE & NOISE CURRENT ADJ. RANGE	215 ~ 430V 150.5W ±5% 2Vp-p	150W		-	54V~108V	
OUTPUT	RATED POWER RIPPLE CURRENT RIPPLE & NOISE CURRENT ADJ. RANGE	150.5W ±5% 2Vp-p	150W		-	$54V \sim 108V$	
ουτρυτ	RIPPLE CURRENT RIPPLE & NOISE CURRENT ADJ. RANGE	±5% 2Vp-p		150.5W		J-V 100V	
OUTPUT	RIPPLE & NOISE CURRENT ADJ. RANGE	2Vp-p	1.5Vp-p		155.4W	151.2W	
ΟυΤΡυΤ	CURRENT ADJ. RANGE	1.1	1.5Vp-p				
		Can be adjusted by inter		1Vp-p	1Vp-p	1Vp-p	
			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	2000ms, 80ms / 115VAC at full load 1000ms, 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			
	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					
	OVER VOLTAGE	475~495V	335 ~ 355V	240~260V	165 ~ 175V	120~130V	
		Protection type : Shut d	own o/p voltage with aut	o-recovery or re-power or	n 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 &	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:0.5KVAC					
	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					
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	8CUFT				
NOTE	 Derating may be needed ur Safety and EMC design ref The power supply is consid complete installation, the fir Refer to warranty statemen 	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.					

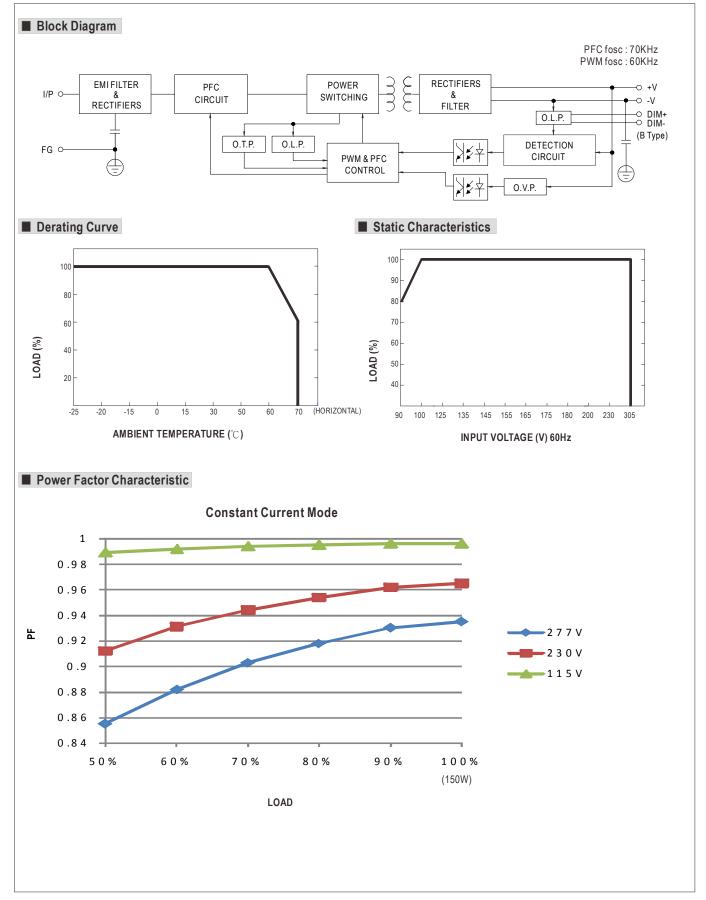


HLG-120H-C series



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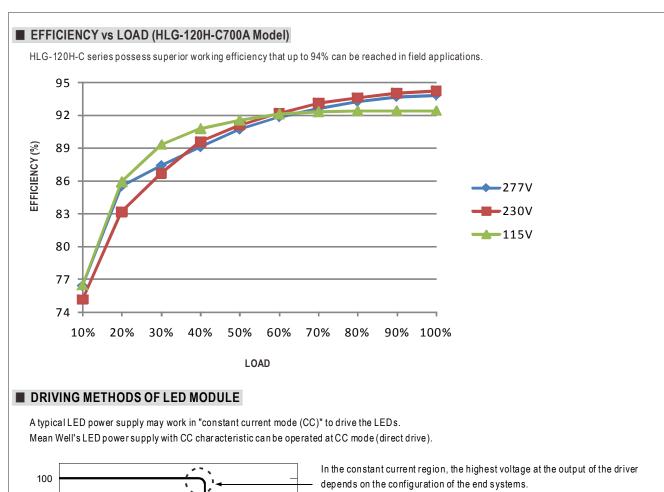


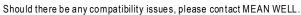




Vo(%)

50





Typical LED power supply I-V curve

100

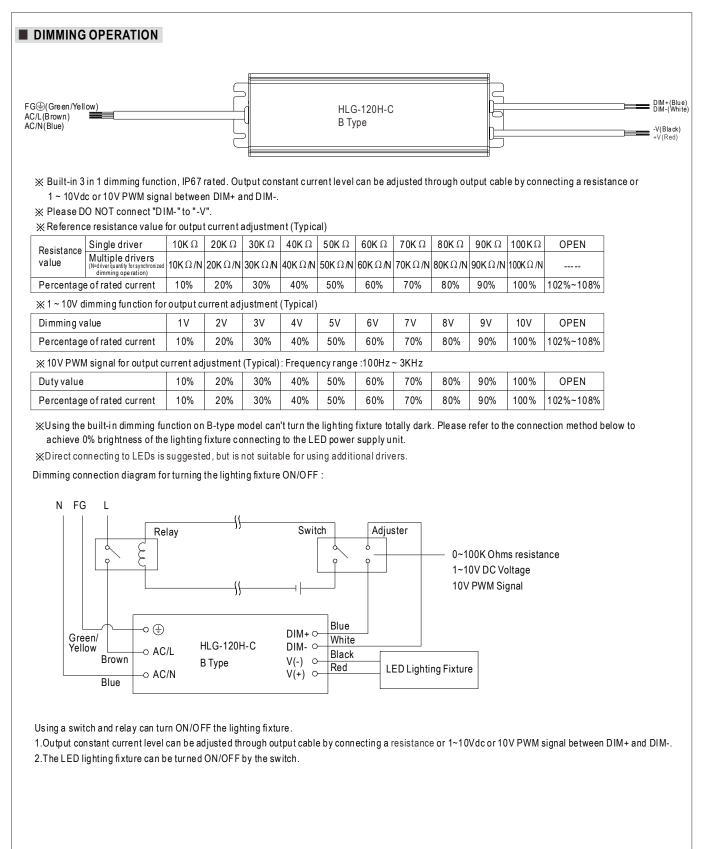
50

Constant Current area

lo (%)



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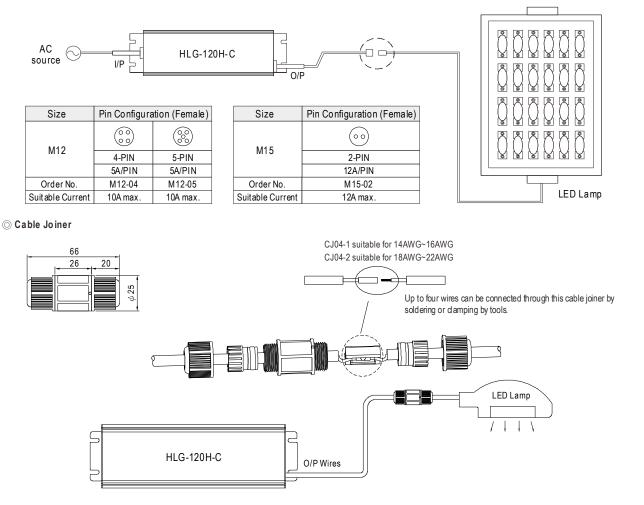




WATERPROOF CONNECTION

◎ 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.