

### 90W Single Output LED Power Supply

## HLG-80H-C series



### Features :

- Constant current design
- Universal AC input / Full range (up to 305VAC)
- Built-in active PFC function
- High efficiency up to 91.5%
- 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-80H-C350A
 A : IP65 rated. Constant current level can be adjusted through internal potentiometer.

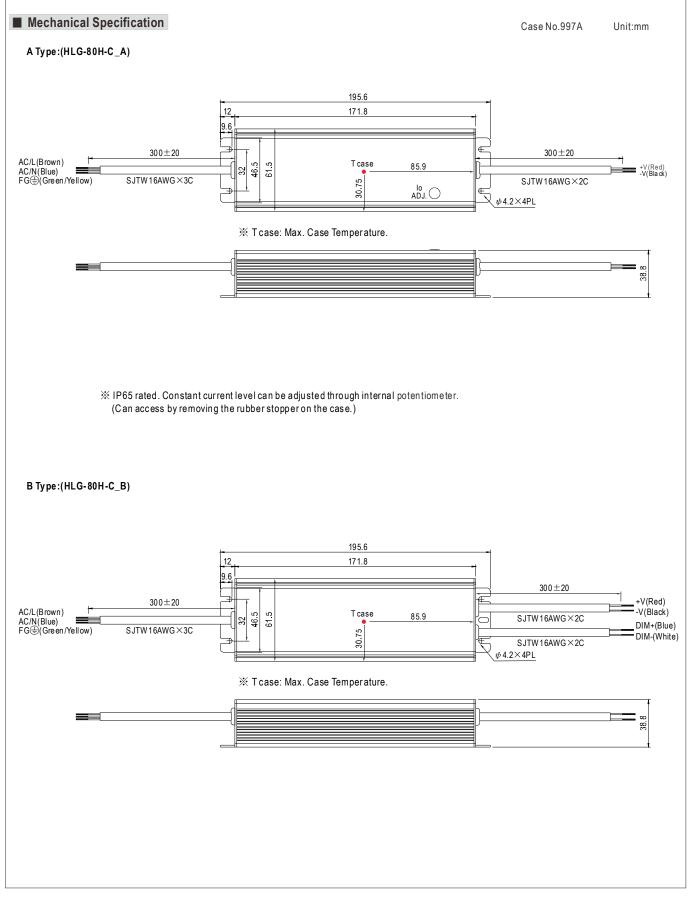
 B : IP67 rated. Constant current level adjustable through output cable with 1~10Vdc or 10V PWM signal or resistance.

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

#### **SPECIFICATION**

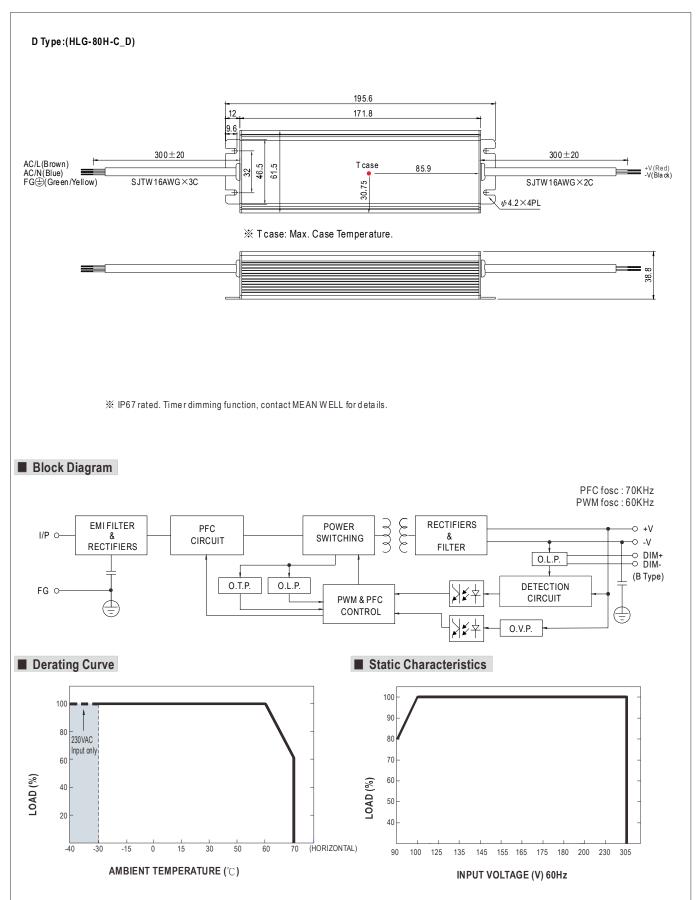
MODEL		HLG-80H-C350	HLG-80H-C700
OUTPUT	RATED CURRENT	350mA	700mA
	CURRENT ACCURACY	±5.0%	
	CONSTANT CURRENT REGION Note.6	A type : 128V ~ 257V B type : 167V ~ 257V	A type : 64V ~ 129V B type : 84V ~ 129V
	RATED POWER	89.95W	90.3W
	RIPPLE CURRENT	±5%	
	RIPPLE & NOISE	1Vp-p	0.5Vp-p
	CURRENT ADJ. RANGE	Can be adjusted by internal potentiometer A type only	
		210 ~ 350mA	420 ~ 700mA
	LINE REGULATION	土1%	土1%
	SETUP, RISE TIME	500ms, 80ms at full load 230VAC /115VAC	
	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>0.94/277VAC at full load (Please refer to "Power Factor Characteristic" curve)	
	TOTAL HARMONIC DISTORTION	THD< 20% when output loading $\geq$ 50% at 115VAC/230VAC input and output loading $\geq$ 75% at 277VAC input	
	EFFICIENCY (Typ.)	91.5%	91.5%
	AC CURRENT (Typ.)	0.88A / 115VAC 0.45A / 230VAC 0.38A / 277VAC	
	INRUSH CURRENT (Typ.)	COLD START 60A(twidth=410µs measured at 50% Ipeak) at 230VAC	
	LEAKAGE CURRENT	<0.75mA / 277VAC	
PROTECTION	SHORT CIRCUIT	Hiccup mode, recovers automatically after fault condition is removed	
		300 ~ 340V 150 ~ 170V	
	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, re-power on to recover	
ENVIRONMENT	WORKING TEMP.	-40 ~ +70 $^{\circ}$ 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. 250.0-08, EN61347-1, EN61347-2-13 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 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, heavy industry level (surge L,N-FG: 4KV), criteria A	
OTHERS	MTBF	309.7K hrs min. MIL-HDBK-217F (25°C)	
	DIMENSION	195.6*61.5*38.8 mm (L*W*H)	
	PACKING	0.84Kg; 16pcs/14.4Kg/0.54CUFT	
NOTE	<ol> <li>All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.</li> <li>Derating may be needed under low input voltages. Please check the static characteristics for more details.</li> <li>Safety and EMC design refer to EN60598-1, CNS15233, GB7000.1.</li> <li>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.</li> <li>Refer to warranty statement.</li> <li>Please refer to "DRIVING METHODS OF LED MODULE".</li> <li>To fulfill requirements of the latest ErP regulation for lighting fixtures, this LED power supply can only be used behind a switch without permanently connected to the mains.</li> </ol>		



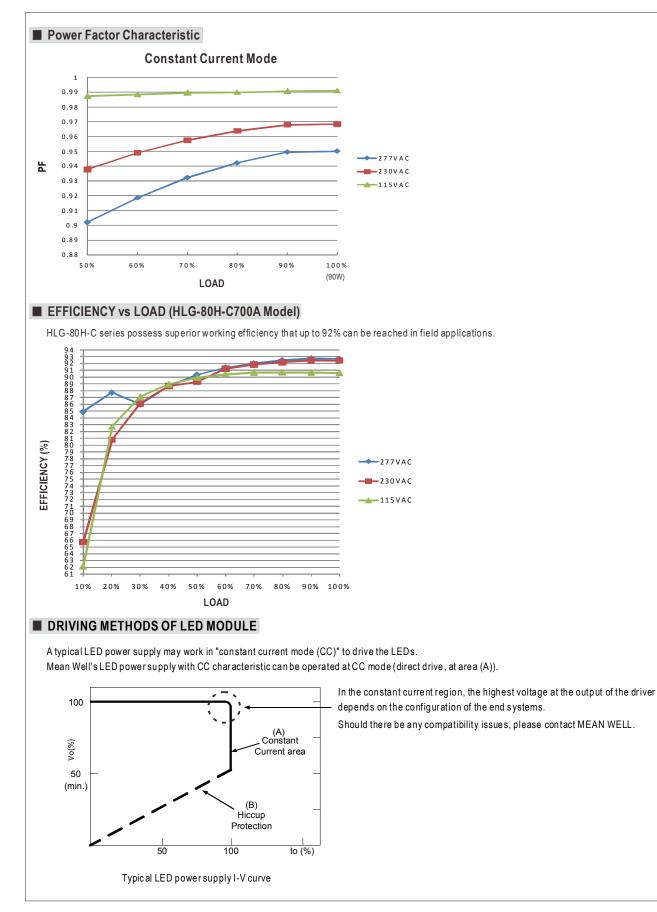


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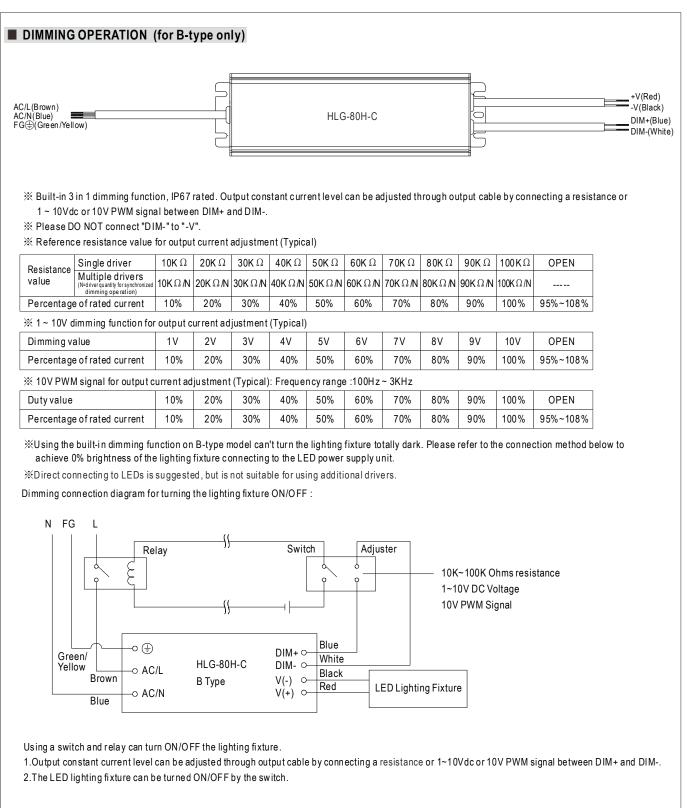










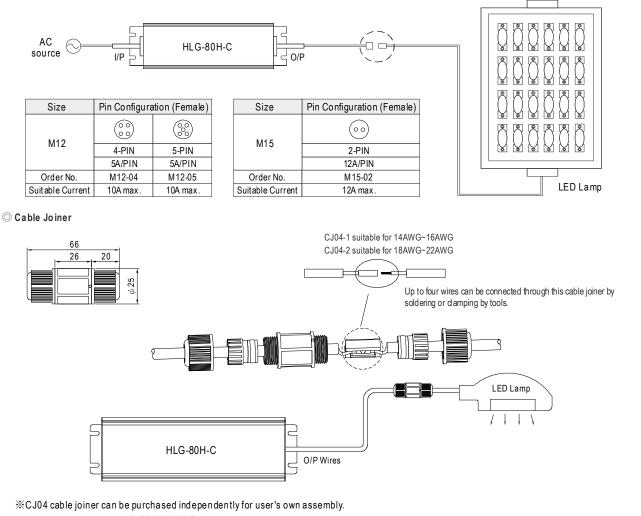




#### WATERPROOF CONNECTION

#### ◎ Waterproof connector

Waterproof connector can be assembled on the output cable of HLG-80H-C to operate in dry/wet/damp or outdoor environment.



MEAN WELL order No. : CJ 04-1, CJ 04-2.