



■ Features :

- Universal AC input / Full range (up to 305VAC)
- · Built-in active PFC function
- Protections: Short circuit / Over current / Over voltage / Over temperature
- Cooling by free air convection
- OCP point adjustable through output cable or internal potentiometer
- IP67 / IP65 design for indoor or outdoor installations
- Class 2 power unit
- Three in one dimming function (1~10Vdc or PWM signal or resistance)
- Suitable for LED lighting and moving sign applications
- · Compliance to worldwide safety regulations for lighting
- · Suitable for dry / damp / wet locations

















HLG-60H-15 A

Blank: IP67 rated. Cable for I/O 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.

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

SPECIFICATION

	ATION	HLG-60H-15					I					
MODEL	MODEL		HLG-60H-20			HLG-60H-36	HLG-60H-42	HLG-60H-48				
	DC VOLTAGE	15V	20V	24V	30V	36V	42V	48V	54V			
	CONSTANT CURRENT REGION Note.4	9 ~ 15V	12 ~ 20V	14.4 ~ 24V	18 ~ 30V	21.6 ~ 36V	25.2 ~ 42V	28.8 ~ 48V	32.4 ~ 54V			
	RATED CURRENT	4A	3A	2.5A	2A	1.7A	1.45A	1.3A	1.15A			
	RATED POWER	60W	60W	60W	60W	61.2W	60.9W	62.4W	62.1W			
	RIPPLE & NOISE (max.) Note.2	150mVp-p	150mVp-p	150mVp-p	200mVp-p	200mVp-p	300mVp-p	300mVp-p	300mVp-p			
	VOLTAGE ADJ. RANGE Note.6	13.5 ~ 17V	17 ~ 22V	22 ~ 27V	27 ~ 33V	33 ~ 40V	40 ~ 46V	44 ~ 53V	49 ~ 58V			
OUTPUT	CURRENT ADJ. RANGE	Can be adjusted by internal potentiometer A type only										
	CONNENT ADS. NAMOL	2.4 ~ 4A	1.8 ~ 3A	1.5 ~ 2.5A	1.2 ~ 2A	1 ~ 1.7A	0.87 ~ 1.45A	0.78 ~ 1.3A	0.69 ~ 1.15A			
	VOLTAGE TOLERANCE Note.3	±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%			
	LOAD REGULATION	±1.5%	±1.0%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%			
	SETUP, RISE TIME Note.8	1500ms, 80ms /	115VAC at full lo	oad 1000m	s, 80ms / 230VA	C at full load						
	HOLD UP TIME (Typ.)	16ms/230VAC	16ms/115\	/AC at full load								
	VOLTAGE RANGE Note.5	90 ~ 305VAC 127 ~ 431VDC										
	FREQUENCY RANGE	47 ~ 63Hz										
	POWER FACTOR (Typ.)	PF>0.98/115VA	C, PF>0.95/230	VAC, PF>0.92/2	77VAC at full load	d (Please refer to	"Power Factor C	Characteristic" ci	urve)			
INPUT	EFFICIENCY (Typ.)	87.5%	89%	89.5%	90%	90%	90%	90.5%	90.5%			
	AC CURRENT (Typ.)	0.64A / 115VAC	0.32A / 23	OVAC 0.3A	/ 277VAC	'	·		'			
	INRUSH CURRENT(Typ.)	COLD START 7										
	LEAKAGE CURRENT	<0.75mA/277VAC										
		95 ~ 108%										
	OVER CURRENT Note.4	Protection type: Constant current limiting, recovers automatically after fault condition is removed										
	SHORT CIRCUIT	Hiccup mode, recovers automatically after fault condition is removed										
PROTECTION	OHORY CHOOM	18 ~ 24V	23 ~ 30V	28 ~ 35V	35 ~ 43V	41 ~ 49V	48 ~ 58V	54 ~ 63V	59 ~ 68V			
111012011011	OVER VOLTAGE							1	100			
		Protection type : Shut down o/p voltage, re-power on to recover 95°C ±10°C (RTH2)										
	OVER TEMPERATURE	Protection type : Shut down o/p voltage, re-power on to recover										
	WORKING TEMP.	-40 ~ +70°C (Refer to "Derating Curve")										
	WORKING HUMIDITY	- '		Ourve)								
ENVIRONMENT	STORAGE TEMP., HUMIDITY	20 ~ 95% RH non-condensing -40 ~ +80°€, 10 ~ 95% RH										
ENVINORMENT	TEMP. COEFFICIENT	±0.03%°C (0~60°C)										
	VIBRATION											
	TIDIATION	,	10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes									
	SAFETY STANDARDS Note.7	UL8750, CSA C22.2 No. 250.0-08 (except for 48V, 54V), EN61347-1, EN61347-2-13 independent, IP65 or IP67, J61347-1,										
SAFETY &	WITHETAND VOLTACE	J61347-2-13 approved; design refer to UL60950-1, TUV EN60950-1, EN60335-1										
EMC	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC I/P-FG:1.88KVAC O/P-FG:0.5KVAC										
EIVIC	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 (≥60% load); EN61000-3-3 Compliance to EN61000-4-2,3,4,5,6,8,11; EN61547, EN55024, light industry level (surge 4KV), criteria A										
	EMC IMMUNITY				547, EN55024, II	gnt industry leve	I (surge 4KV), cr	iteria A				
0711506	MTBF	338K hrs min. MIL-HDBK-217F (25°C)										
OTHERS	DIMENSION	171*61.5*36.8mm (L*W*H)										
	PACKING	0.73Kg; 20pcs/15.6Kg/0.9CUFT										
NOTE	Ripple & noise are measure Tolerance : includes set up Constant current operation reconfirm special electrical	ed at 20MHz of to tolerance, line re region is within or requirements for	y mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. d at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. olerance, line regulation and load regulation. agion is within 60% ~100% rated output voltage. This is the suitable operation region for LED related applications, but please equirements for some specific system design. Jer low input voltages. Please check the static characteristics for more details.									

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.

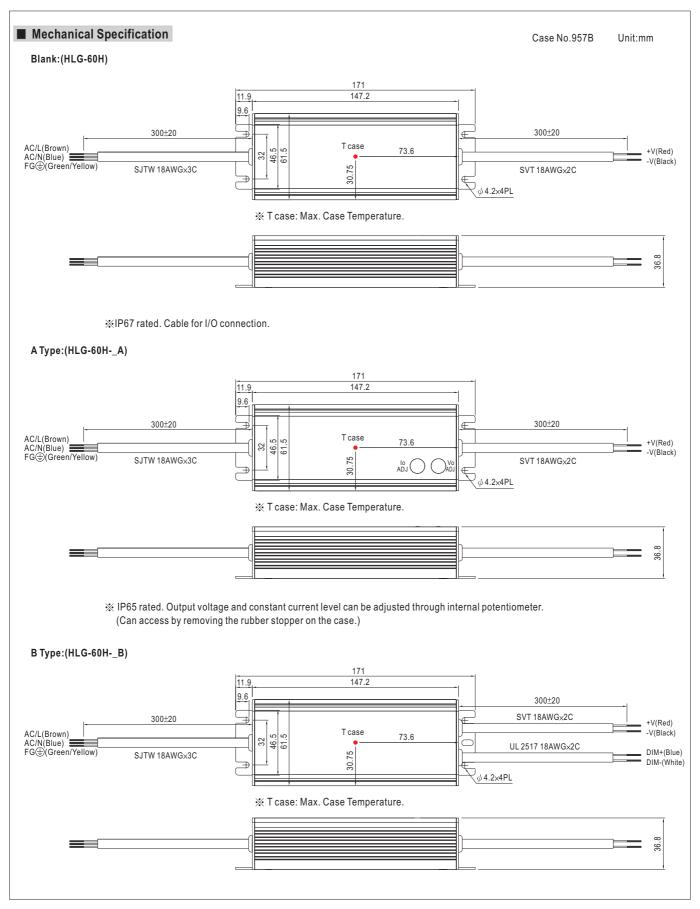
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6. Type A Univ.

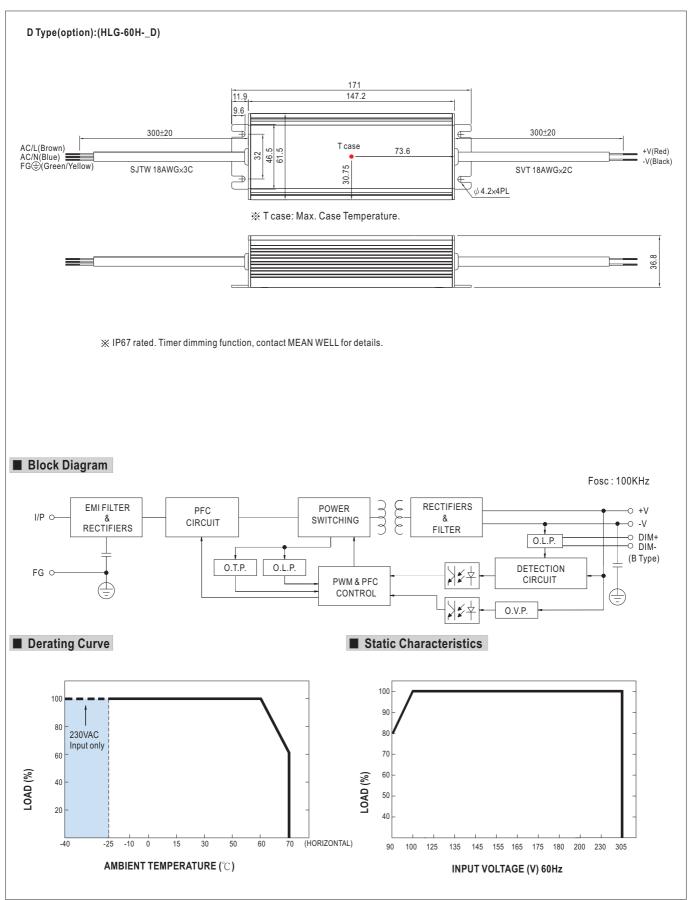
7. Safety and EMC design refer to EN60598-1, CNS15233, GB7000.1, FCC part18.

8. Length of set up time is measured at cold first start. Turning ON/OFF the power supply may lead to increase of the set up time.



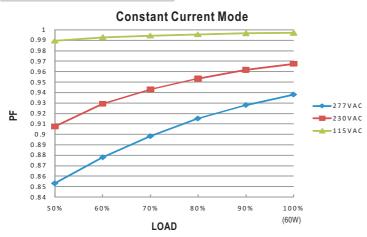






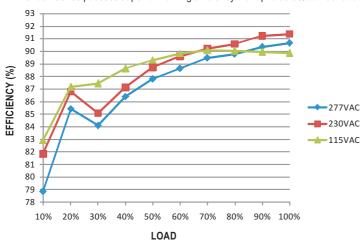


■ Power Factor Characteristic



■ EFFICIENCY vs LOAD (48V Model)

HLG-60H series possess superior working efficiency that up to 90.5% can be reached in field applications.

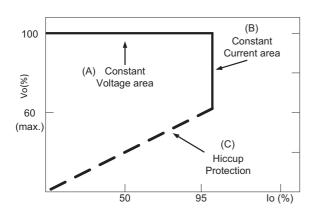


■ DRIVING METHODS OF LED MODULE

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.

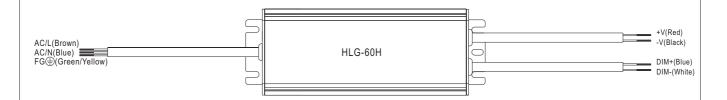
Mean Well's LED power supply with CV+ CC characteristic can be operated at both CV mode (with LED driver, at area (A) and CC mode (direct drive, at area (B).



Typical LED power supply I-V curve



■ DIMMING OPERATION (for B-type only)



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

Resistance	Single driver	10K Ω	20K Ω	30K Ω	40K Ω	50K Ω	60Κ Ω	70K Ω	80K Ω	90ΚΩ	100K Ω	OPEN
value	Multiple drivers (N=driver quantity for synchronized dimming operation)	10KΩ/N	20K Ω/N	30K Ω /N	40KΩ/N	50KΩ/N	60KΩ/N	70K Ω/ N	80K Ω/N	90KΩ/N	100KΩ/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)

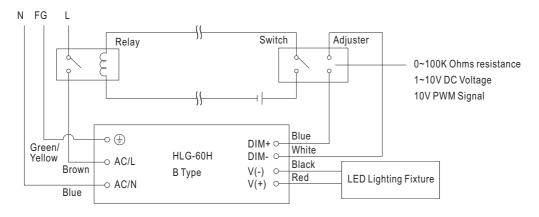
Dimming value	1V	2V	3V	4V	5V	6V	7V	8V	9V	10V	OPEN
Percentage of rated current	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	95%~108%

* 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%

- XUsing 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.
- $\normalfootnote{\times}$ Direct connecting to LEDs is suggested, but is not suitable for using additional drivers.

Dimming connection diagram for turning the lighting fixture ON/OFF:



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

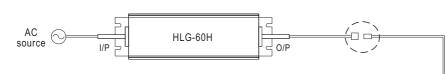
- 1.Output constant current level can be adjusted through output cable by connecting a resistance or 1~10Vdc or 10V PWM signal between DIM+ and DIM-.
- 2. The LED lighting fixture can be turned ON/OFF by the switch.



■ WATERPROOF CONNECTION

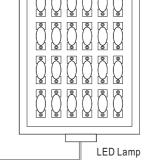
Waterproof connector

Waterproof connector can be assembled on the output cable of HLG-60H to operate in dry/wet/damp or outdoor environment.

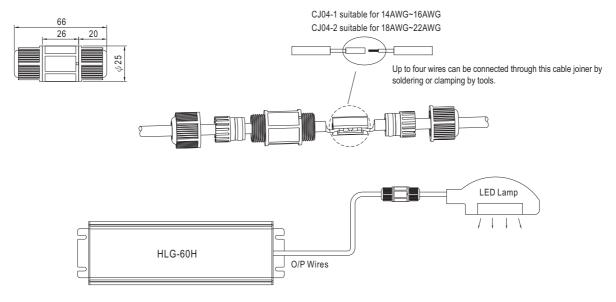


Size	Pin Configuration (Female					
M12	00	000				
IVIIZ	4-PIN	5-PIN				
	5A/PIN	5A/PIN				
Order No.	M12-04	M12-05				
Suitable Current	10A max.	10A max.				

Pin Configuration (Female)					
00					
2-PIN					
12A/PIN					
M15-02					
12A max.					



O Cable Joiner



单击下面可查看定价,库存,交付和生命周期等信息

>>MEAN WELL(台湾明纬)