



- 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
- 5 years warranty (Note.10)











HLG-40H-12 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 (optional): IP67 rated. Timer dimming function, contact MEAN WELL for details.

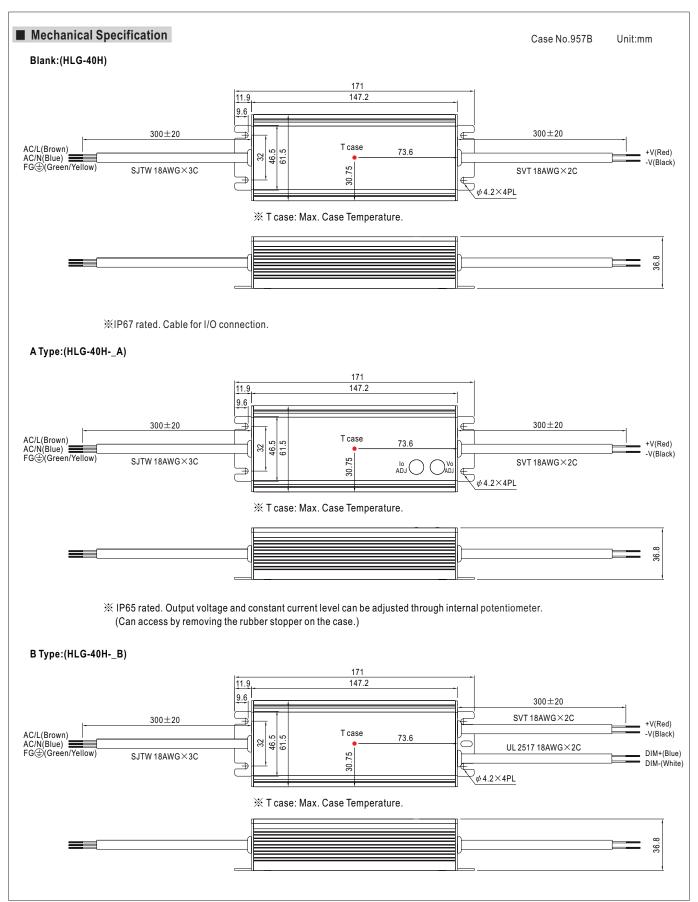
SPECIFICATION

MODEL		HLG-40H-12	HLG-40H-15	HLG-40H-20	HLG-40H-24	HLG-40H-30	HLG-40H-36	HLG-40H-42	HLG-40H-48	HLG-40H-54			
	DC VOLTAGE	12V	15V	20V	24V	30V	36V	42V	48V	54V			
	CONSTANT CURRENT REGION Note.4	7.2 ~12V	9 ~ 15V	12 ~ 20V	14.4 ~ 24V	18 ~ 30V	21.6 ~ 36V	25.2 ~ 42V	28.8 ~ 48V	32.4 ~ 54V			
	RATED CURRENT	3.33A	2.67A	2A	1.67A	1.34A	1.12A	0.96A	0.84A	0.75A			
	RATED POWER	39.96W	40.05W	40W	40.08W	40.2W	40.32W	40.32W	40.32W	40.5W			
	RIPPLE & NOISE (max.) Note.2	150mVp-p	150mVp-p	150mVp-p	200mVp-p	200mVp-p	200mVp-p	200mVp-p	300mVp-p	300mVp-p			
	VOLTAGE ADJ. RANGE Note.6	10.8 ~ 13.5V	13.5 ~ 17V	17 ~ 22V	22 ~ 27V	27 ~ 33V	33 ~ 40V	40 ~ 46V	44 ~ 53V	49 ~ 58V			
OUTPUT		Can be adjusted by internal potentiometer A type only											
	CURRENT ADJ. RANGE	2~3.33A	1.6 ~ 2.67A	1.2 ~ 2A	1 ~ 1.67A	0.8 ~ 1.34A	0.67 ~ 1.12A	0.58 ~ 0.96A	0.5 ~ 0.84A	0.45 ~ 0.75			
	VOLTAGE TOLERANCE Note.3	±2.5%	±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%	±0.5%			
	LOAD REGULATION	±2.0%	±1.5%	±1.0%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%			
	SETUP, RISE TIME Note.8	500ms, 80ms	at full load 2	30VAC /115VA	iC								
	HOLD UP TIME (Typ.)	16ms/230VA	C 16ms/1	15VAC at full	load								
	VOLTAGE RANGE Note.5	90 ~ 305VAC	127 ~ 43	IVDC									
	FREQUENCY RANGE	47 ~ 63Hz											
	POWER FACTOR (Typ.)	PF>0.98/115VAC, PF>0.95/230VAC, PF>0.92/277VAC at full load (Please refer to "Power Factor Characteristic" curve)											
	TOTAL HARMONIC DISTORTION	THD< 20% w	hen output loa	ding≧60% at	115VAC/230V	AC input and o	output loading	≧75% at 277\	/AC input				
INPUT	EFFICIENCY (Typ.)	86.5%	86.5%	88%	88%	88.5%	88.5%	88.5%	89.5%	89.5%			
INPUI	AC CURRENT (Typ.)	0.43A / 115VAC											
	INRUSH CURRENT(Typ.)	COLD START 50A(twidth=210 /cs measured at 50% peak) at 230VAC											
	MAX. No. of PSUs on 16A CIRCUIT BREAKER	12 units (circuit breaker of type B) / 20 units (circuit breaker of type C) at 230VAC											
	LEAKAGE CURRENT	<0.75mA / 277VAC											
	OVED CURDENT N	95~108%											
	OVER CURRENT Note.4	Protection type: Constant current limiting, recovers automatically after fault condition is removed											
PROTECTION	SHORT CIRCUIT	Hiccup mode, recovers automatically after fault condition is removed											
PROTECTION	0//=0//0/ =4.0=	15~21V											
	OVER VOLTAGE	Protection type: Shut down o/p voltage, re-power on to recover											
	OVER TEMPERATURE	Shut down o/p voltage, re-power on to recover											
	WORKING TEMP.	-40 ~ +70°C (Refer to "Dera	ting Curve")									
	WORKING HUMIDITY	20 ~ 95% RH	non-condensir	ng									
ENVIRONMENT	STORAGE TEMP., HUMIDITY	-40 ~ +80°C,	10 ~ 95% RH										
	TEMP. COEFFICIENT	±0.03%/°C (0~60°C)										
	VIBRATION	10 ~ 500Hz, 5	G 12min./1cyc	le, period for	72min. each ald	ong X, Y, Z axe	s						
	SAFETY STANDARDS Note.7						EN61347-2-13			approved;			
)-1, TUV EN60	950-1, EN603	35-1				
SAFETY & EMC	WITHSTAND VOLTAGE		KVAC I/P-F										
	ISOLATION RESISTANCE	,	G, O/P-FG:10										
	EMC EMISSION				` `	load) ; EN6100			· A				
	EMC IMMUNITY					5024, light indu	ustry level (sur	ge 4KV), criter	ia A				
	MTBF	336.5K hrs m		3K-217F (25°C)								
OTHERS	DIMENSION	171*61.5*36.	, ,										
	PACKING		s/15.6Kg/0.9Cl			0~							
NOTE		ed at 20MHz o	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.										

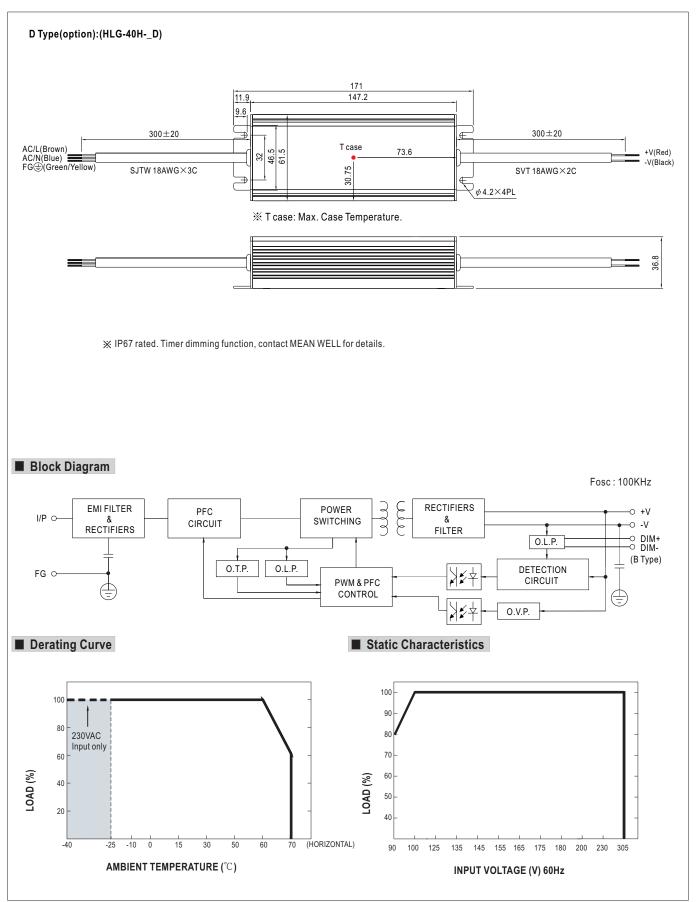
- Tolerance : includes set up tolerance, line regulation and load regulation.
 Please refer to "DRIVING METHODS OF LED MODULE".
- 5. Derating may be needed under low input voltages. Please check the static characteristics for more details.
- A type only.
 Safety and EMC design refer to EN60598-1, CNS15233, 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.

 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.
- 11. 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.



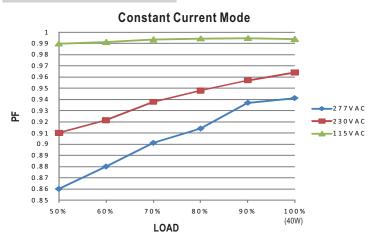






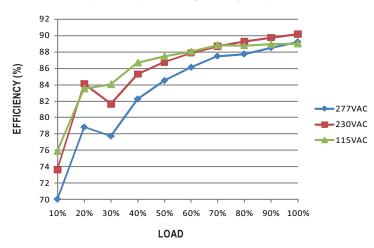


■ Power Factor Characteristic



■ EFFICIENCY vs LOAD (48V Model)

HLG-40H series possess superior working efficiency that up to 89.5% can be reached in field applications.

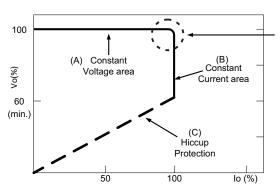


■ DRIVING METHODS OF LED MODULE

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

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.



■ DIMMING OPERATION (for B-type only)



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

Resistance value	Single driver	10K Ω	20ΚΩ	30K Ω	40K Ω	50K Ω	60KΩ	70K Ω	80KΩ	90ΚΩ	100K Ω	OPEN
	Multiple drivers (N=driver quantity for synchronized dimming operation)	10K Ω/N	20K Ω/N	30K Ω /N	40K Ω/N	50K Ω/N	60K Ω /N	70K Ω /N	80K Ω /N	90K Ω /N	100K Ω/N	
Percentage	e of rated current	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	95%~108%

¾ 1 ~ 10V dimming function for output current adjustment (Typical)

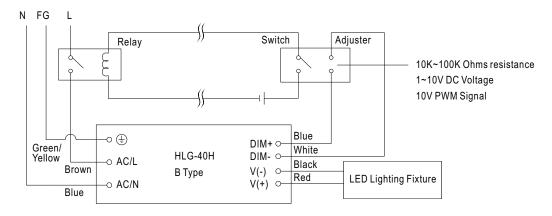
Dimming value	1V	2V	3V	4V	5V	6V	7V	8V	9V	10V	OPEN
Percentage of rated current	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	95%~108%

¾ 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%

- **Using 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.
- $\label{eq:def:Def:Def:Def} \begin{picture}(20,20) \put(0,0){\line(0,0){100}} \put(0,0){\line(0,0){$

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



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

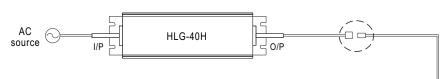
- 1.Output constant current level can be adjusted through output cable by connecting a resistance or 1~10Vdc or 10V PWM signal between DIM+ and DIM-.
- 2. The LED lighting fixture can be turned ON/OFF by the switch.



■ WATERPROOF CONNECTION

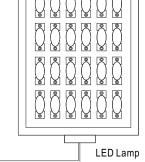
O Waterproof connector

Waterproof connector can be assembled on the output cable of HLG-40H to operate in dry/wet/damp or outdoor environment.

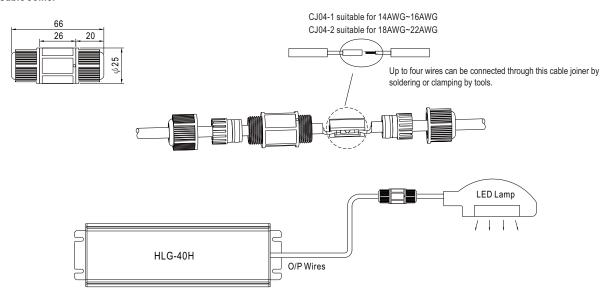


Size	Pin Configuration (Femal					
M12	000	000				
IVIIZ	4-PIN	5-PIN				
	5A/PIN	5A/PIN				
Order No.	M12-04	M12-05				
Suitable Current	10A max.	10A max.				

Size	Pin Configuration (Female)				
M15	00				
MITO	2-PIN				
	12A/PIN				
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 order No.: CJ04-1, CJ04-2.



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