



■ 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
- "UL8750 listed" safety approved for HLG-80H-□BL
- · 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-80H-12A

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.

BL (optional): Contact MEAN WELL for details.

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

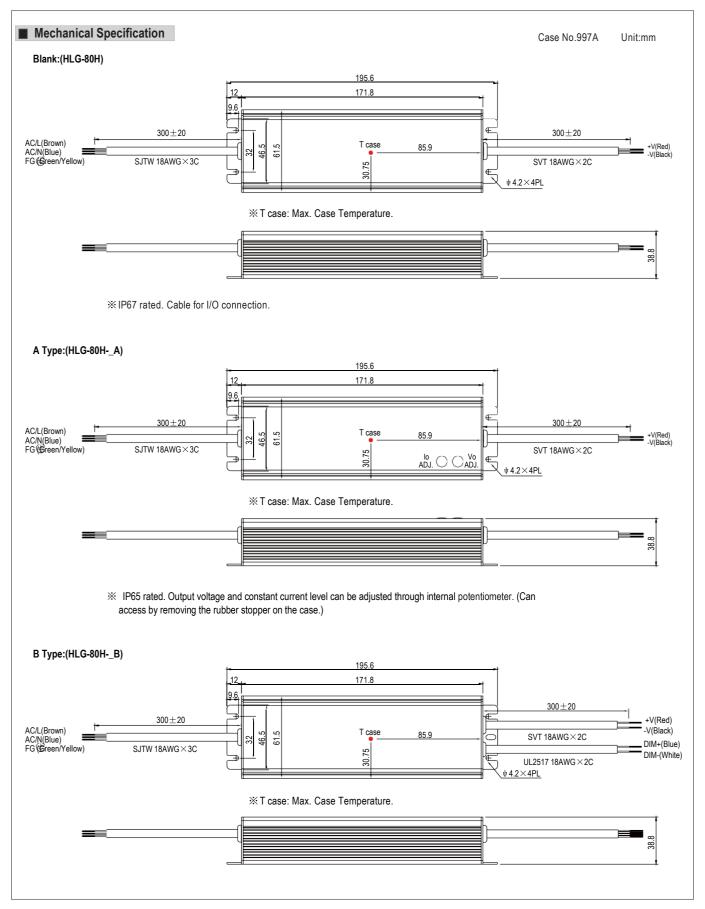
SPECIFICATION

	HI G-80H-24	HI G-80H-48	HLG-80H-54								
I											
			54V								
			32.4 ~ 54V								
			1.5A								
	81.6W	81.6W	81W								
. ,	150mVp-p	200mVp-p	200mVp-p								
VOLTAGE ADJ. RANGE Note.6	22 ~ 27V	43 ~ 53V 49 ~ 58V									
CURRENT ADJ. RANGE	Can be adjusted by internal potentiometer A	type only									
		1.02 ~ 1.7A	0.9 ~ 1.5A								
VOLTAGE TOLERANCE Note.3	±1.0%	±1.0%	±1.0%								
LINE REGULATION	±0.5%	±0.5%	±0.5%								
LOAD REGULATION	\pm 0.5%	±0.5%	±0.5%								
SETUP, RISE TIME Note.8	1200ms,80ms/115VAC 500ms,80ms/230VA	C at full load; B type 1200ms,200ms/115\	/AC 500ms,200ms/230VAC at 95% load								
HOLD UP TIME (Typ.)	16ms at full load 230VAC /115VAC										
VOLTAGE RANGE Note.5	90 ~ 305VAC 127 ~ 431VDC										
FREQUENCY RANGE	47 ~ 63Hz										
POWER FACTOR (Typ.)	PF>0.96/115VAC, 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 ≧ 60% at 115VAC/230VAC input and output loading ≧ 75% at 277VAC input										
EFFICIENCY (Typ.)	90.5%	91%	91%								
	0.85A / 115VAC	0.4A / 277VAC									
MAX. No. of PSUs on 16A											
CIRCUIT BREAKER		ircuit breaker of type C) at 230VAC									
LEAKAGE CURRENT	<0.75mA / 277VAC										
OVER CURRENT Note 4	95 ~ 108%										
OVER CORRECT Hote.4	Protection type: Constant current limiting, re	covers automatically after fault condition i	s removed								
SHORT CIRCUIT	Hiccup mode, recovers automatically after fault condition is removed										
OVER VOLTAGE	28 ~ 35V	54 ~ 63V	59 ~ 68V								
OVER VOLTAGE	Protection type: Shut down o/p voltage, re-p	ower on to recover									
OVER TEMPERATURE	Shut down o/p voltage, re-power on to recover										
WORKING TEMP.	-40 ~ +70 °C (Refer to "Derating Curve")										
WORKING HUMIDITY	20 ~ 95% RH non-condensing										
STORAGE TEMP., HUMIDITY	-40 ~ +80 °C, 10 ~ 95% RH										
TEMP. COEFFICIENT											
VIBRATION	10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes										
	UL8750, CSA C22.2 No. 250.0-08(except for HLG-80H-48/54V & HLG-80H-48/54BL), UL8750 listed for HLG-80HBL, EN61347-1,										
SAFETY STANDARDS Note.7	EN61347-2-13 independent, optional models for J61347-1, J61347-2-13, IP65 or IP67 approved; Design refer to UL60950-1, TUV EN60950-1										
WITHSTAND VOLTAGE	1 1 1										
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2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" (wisted pair-wire terminated with a 0.1 of & 47 of parallel capacitor. 3. Tolerance: includes set up tolerance, line regulation and load regulation. 4. 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. 6. A type only. 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. 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											
	CURRENT ADJ. RANGE VOLTAGE TOLERANCE Note.3 LINE REGULATION LOAD REGULATION SETUP, RISE TIME Note.8 HOLD UP TIME (Typ.) VOLTAGE RANGE Note.5 FREQUENCY RANGE POWER FACTOR (Typ.) TOTAL HARMONIC DISTORTION EFFICIENCY (Typ.) INRUSH CURRENT (Typ.) INRUSH CURRENT (Typ.) MAX. No. of PSUs on 16A CIRCUIT BREAKER LEAKAGE CURRENT OVER CURRENT Note.4 SHORT CIRCUIT OVER VOLTAGE OVER TEMPERATURE WORKING TEMP. WORKING HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS Note.7 WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION EMC IMMUNITY MTBF DIMENSION PACKING 1. All parameters NOT specia 2. Ripple & noise are measure 3. Tolerance: includes set up 4. Please refer to "DRIVING N 5. Derating may be needed ut 6. A type only. 7. Safety and EMC design ref 9. The power supply is considency installation, the time 9. The power supply is considency installation, the time 9. The power supply is considency installation, the time 10. Refer to warranty stateme 11. Refer to warranty stateme	CONSTANT CURRENT REGION Note.4 RATED CURRENT RATED POWER RIPPLE & NOISE (max.) Note.2 VOLTAGE ADJ. RANGE VOLTAGE TOLERANCE Note.3 LINE REGULATION LOAD REGULATION LOAD REGULATION LOAD REGULATION LOAD REGULATION LOAD REGULATION LOAD REGULATION VOLTAGE RANGE Note.3 # 100ms,80ms/115VAC 500ms,80ms/230VA HOLD UP TIME (Typ.) VOLTAGE RANGE Note.5 # 7 - 63Hz POWER FACTOR (Typ.) TOTAL HARMONIC DISTORTION INTUSH CURRENT (Typ.) MAX. No. of PSUs on 16A CIRCUIT BREAKER LEAKAGE CURRENT OVER CURRENT Note.4 SHORT CIRCUIT Hiccup mode, recovers automatically after fit 28 - 35V Protection type: Shut down o/p voltage, re-power on to recover to the complex of the	DC VOLTAGE 24V 48V 28.8 - 48V 38.6 48.4 1.7A 3.4A 1.7A 3.4A 1.7A 3.4A 1.7A 3.4A 3.17A 3.4A 3.1A 3.4A 3.17A 3.4A 3.1A 3.4A 3.4A 3.1A 3.4A 3.1A 3.4A 3.1A 3.4A 3.4A 3.1A 3.4A 3.1A 3.4A 3.1A 3.4A 3.4A 3.1A 3.4A 3.4A 3.1A 3.4A 3.4A 3.1A 3.4A 3.4A 3.4A 3.4A 3.4A 3.4A 3.4A 3.4A 3.4A 3.4A								



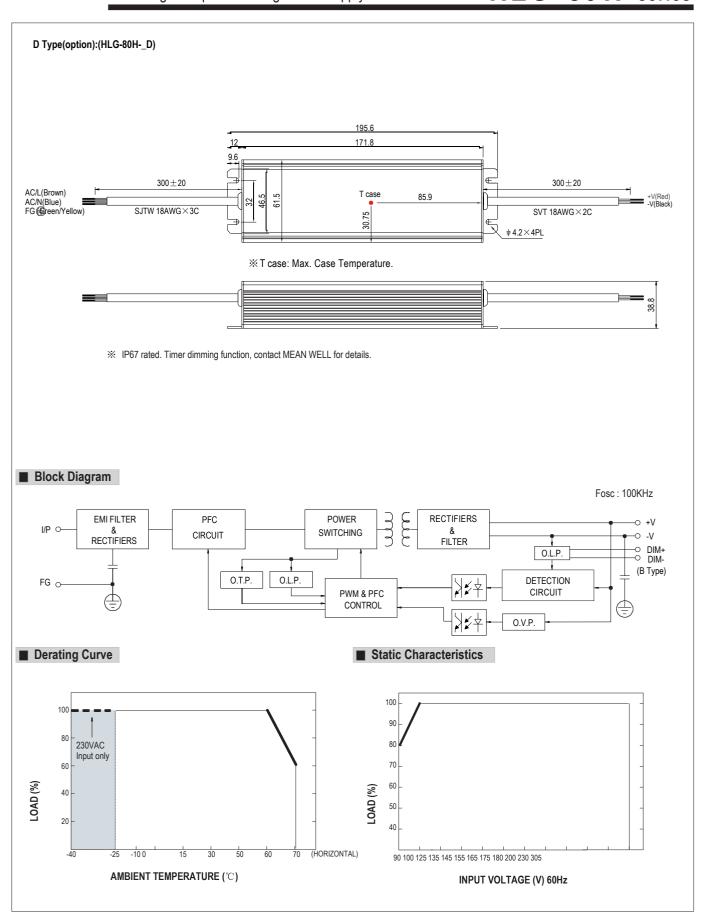
80W Single Output Switching Power Supply

HLG-80H series



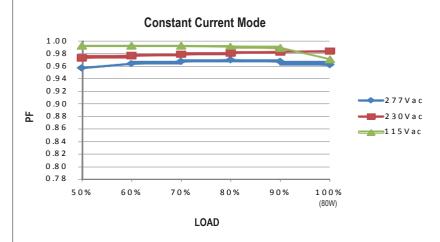






VIVOTEK

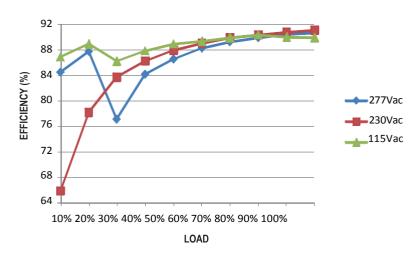
■ Power Factor Characteristic



80W Single Output Switching Power Supply

■ EFFICIENCY vs LOAD (48V Model)

HLG-80H series possess superior working efficiency that up to 91% can be reached in field applications.

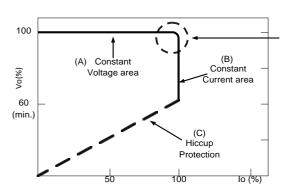


■ DRIVING METHODS OF LED MODULE

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.

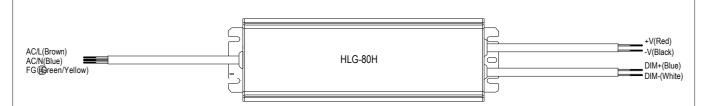
Should there be any compatibility issues, please contact MEAN WELL.



80W Single Output Switching Power Supply

HLG-80H series

■ DIMMING OPERATION



- Built-in 3 in 1 dimming function, IP67 rated. 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-.
- ※ Reference resistance value for output current adjustment (Typical)

Resistance	Single driver	10K Ω	20K Ω	30K Ω	40K Ω	50K Ω	60K Ω	70K Ω	80K Ω	90K Ω	100K Ω	OPEN
1	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	of rated current	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	102%~108%

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

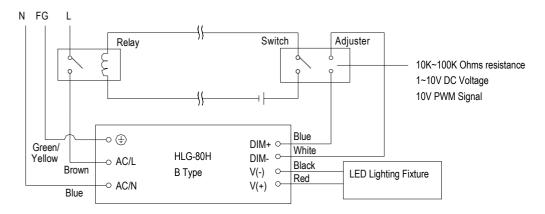
Dimming value	1V	2V	3V	4V	5V	6V	7V	8V	9V	10V	OPEN
Percentage of rated current	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	102%~108%

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%	102%~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.
- ※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.



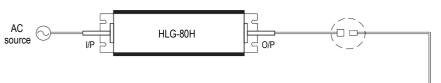




■ WATERPROOF CONNECTION

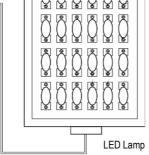
Waterproof connector

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

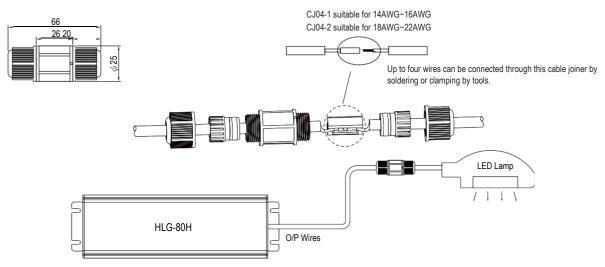


Size	Pin Configuration (Fema					
M12	00	%				
IVI I Z	4-PIN	5-PIN				
	5A/PIN	5A/PIN				
Order No.	M12-04	M12-05				
Suitable Current	10A max.	10A max.				

Size	Pin Configuration (Female)			
M15	00			
NIIO	2-PIN			
	12A/PIN			
Order No.	M15-02			
Suitable Current	12A max.			



Cable Joiner



□ Junction Box(Option)

