

Наличие и актуальные цены на

# HLN-80H-15

https://www.mean-well.ru/store/HLN-80H-15/



#### 80W Single Output Switching Power Supply

### HLN-80H series

User's Manual

同论结

- 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
- Fully isolated plastic case with IP64 level
- Class 2 power unit
  - Class 2 power unit
- Three in one dimming function (1~10Vdc or PWM signal or resistance)
- Suitable for LED lighting, Industrial Lighting and moving sign applications
  Compliance to worldwide safety regulations for lighting
- Suitable for dry / damp locations or outdoor application

#### GTIN CODE

MW Search: https://www.meanwell.com/serviceGTIN.aspx • 3 years warranty

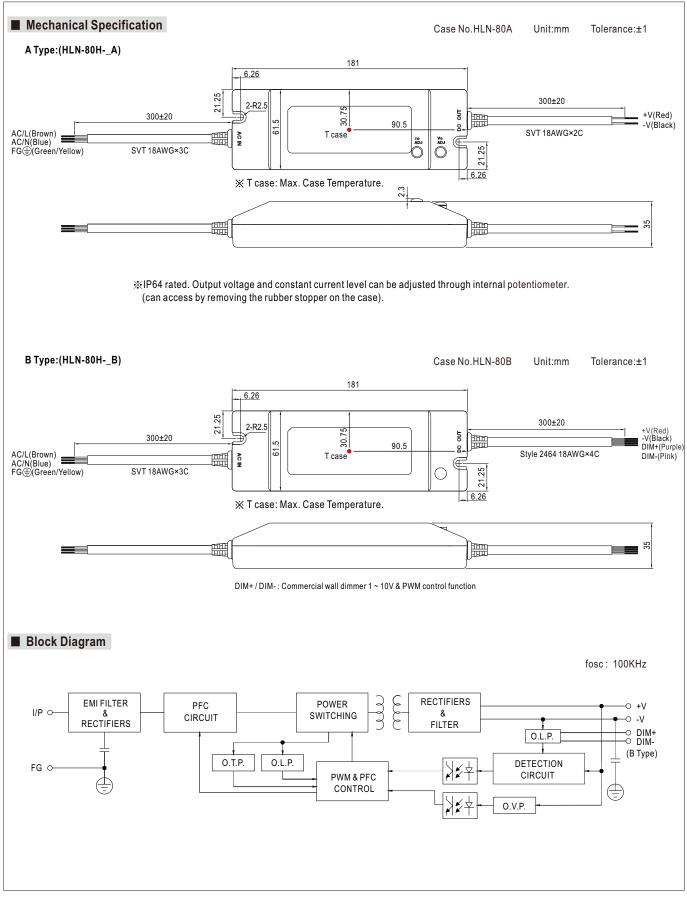


HLN-80H-12 A : IP64 rated. Output voltage and constant current level can be adjusted through internal potentiometer. B : IP64 rated. Constant current level adjustable through output cable with 1~10Vdc or 10V PWM signal or resistance.

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MODEL			HLN-80H-15				HLN-80H-36	HLN-80H-42	HLN-80H-48	HLN-80H-54[				
	DC VOLTAGE	12V	15V	20V	24V	30V	36V	42V	48V	54V				
OUTPUT	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	5A	5A	4A	3.4A	2.7A	2.3A	1.95A	1.7A	1.5A				
	RATED POWER	60W	75W	80W	81.6W	81W	82.8W	81.9W	81.6W	81W				
	RIPPLE & NOISE (max.) Note.2	150mVp-p	150mVp-p	150mVp-p	150mVp-p	200mVp-p	200mVp-p	200mVp-p	200mVp-p	200mVp-p				
	VOLTAGE ADJ. RANGE Note.6	10.8~13.5V	13.5 ~ 17V	17 ~ 22V	22 ~ 27V	27 ~ 33V	33 ~ 40V	38~46V	43 ~ 53V	49~58V				
	CURRENT ADJ. RANGE	Can be adjust	ed by internal p	otentiometer A	A type only									
	OURICENT ADD. NAMOL	3 ~ 5A	3 ~ 5A	2.4 ~ 4A	2.04 ~ 3.4A	1.62~2.7A	1.38 ~ 2.3A	1.17 ~ 1.95A	1.02 ~ 1.7A	0.9~1.5A				
	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	1200ms,80ms	/115VAC 50	0ms,80ms/230	VAC at full loa	id ; B type 1200	ms,200ms/11	5VAC 500ms	s,200ms/230VA	AC at 95% lo				
	HOLD UP TIME (Typ.)	16ms at full lo	ad 230VAC/	115VAC										
	VOLTAGE RANGE Note.5	90 ~ 305VAC	127 ~ 431	VDC										
	FREQUENCY RANGE	47 ~ 63Hz												
	POWER FACTOR (Typ.)	PF>0.96/115V	AC, PF>0.96/2	230VAC, PF>0	.94/277VAC at	full load (Pleas	e refer to "Pow	ver Factor Chai	racteristic" curv	re)				
	TOTAL HARMONIC DISTORTION	THD< 20% when output loading≧60% at 115VAC/230VAC input and output loading≧75% at 277VAC input												
INPUT	EFFICIENCY (Typ.)	88%												
	AC CURRENT (Typ.)	0.85A / 115VAC 0.425A / 230VAC 0.4A / 277VAC												
	INRUSH CURRENT(Typ.)	COLD START 70A(twidth=485µs measured at 50% Ipeak) at 230VAC												
	MAX. No. of PSUs on 16A CIRCUIT BREAKER	3 units (circuit breaker of type B) / 6 units (circuit breaker of type C) at 230VAC												
	LEAKAGE CURRENT	<0.75mA/277VAC												
	OVER CURRENT Note.4	95 ~ 108% Protection type : Constant current limiting, recovers automatically after fault condition is removed												
	SHORT CIRCUIT		recovers auto											
PROTECTION		14 ~ 17V	18~24V	23 ~ 30V	28 ~ 35V	35~43V	41~49V	48~58V	54 ~ 63V	59~68V				
	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 ~ +50°C (Refer to "Derating Curve")												
	WORKING HUMIDITY	20 ~ 95% RH non-condensing												
INVIRONMENT	STORAGE TEMP., HUMIDITY	-40 ~ +80°C, 10 ~ 95% RH												
	TEMP. COEFFICIENT													
	VIBRATION	±0.03%/°C (0 ~ 40°C) 10 ~ 500Hz, 2G 12min./1cycle, period for 72min. each along X, Y, Z axes												
	VIDRATION					•		andent (DC4						
	SAFETY STANDARDS Note.7	UL8750, CSA C22.2 No. 250.0-08, BS EN/EN 61347-1, BS EN/EN 61347-2-13 independent ; IP64, EAC TP TC 004 approved ; Design refer to UL60950-1												
SAFETY &				0		0								
	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC I/P-FG:2KVAC 0/P-FG:0.5KVAC I/P-O/P, I/P-FG, 0/P-FG:100M Ohms / 500VDC / 25°C/ 70% RH												
EMC	ISOLATION RESISTANCE									0.0.0				
	EMC EMISSION	Compliance to BS EN/EN55015, BS EN/EN61000-3-2 Class C (≧60% load, 12V model ≧65% load) ; BS EN/EN61000-3-3, EAC TP TC 020												
		Compliance to BS EN/EN61000-4-2,3,4,5,6,8,11, BS EN/EN61547, BS EN/EN55024, light industry level (surge 4KV), criteria B, EAC TP TC 020												
	MTBF	2786.8K hrs min. Telcordia SR-332(Bellcore) ; 316.2K hrs min. MIL-HDBK-217F (25°C)												
OTHERS	DIMENSION	181*61.5*35n	, ,	-										
	PACKING		•		Used and OF O	-f	4							
NOTE	PACKING         0.5Kg; 24pcs/13Kg/0.87CUFT           1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.           2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf 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, 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. (as available on https://www.meanwell.com//Upload/PDF/EML statement_en.pdf)           10. 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.           11. The ambient temperature derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500ft).           12. For any application note and IP water proof function installation caution, please refer our user manual before using. https://www.meanwell.c													



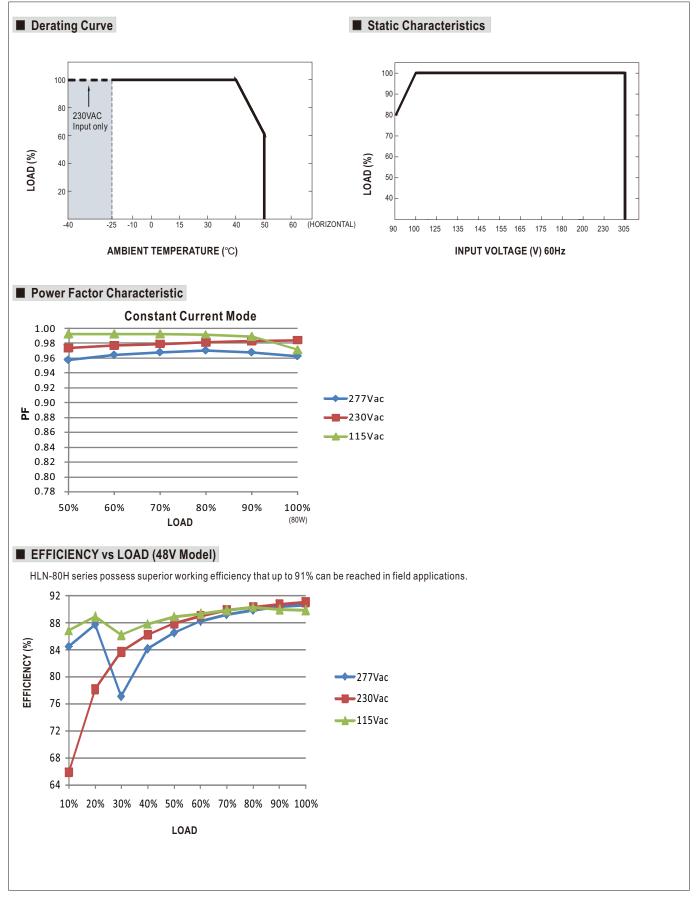
## HLN-80H series





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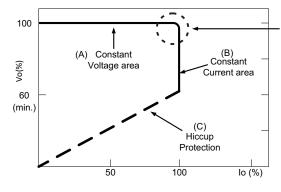
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#### DRIVING METHODS OF LED MODULE

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).

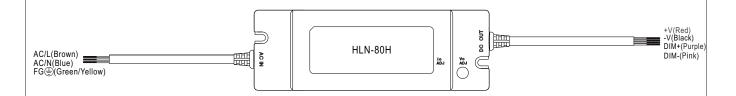


Typical LED power supply I-V curve

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)



% Built-in 3 in 1 dimming function, IP64 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-.

※ Please DO NOT connect "DIM-" to "-V".

% Reference resistance value for output current adjustment (Typical)

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

Percentage of rated current 10% 20% 30% 40% 50% 60% 70% 80% 90% 100%	mming value 1V 2V	3V 4\	4V 5V	6V	7V	8V	9V	10V	OPEN
	rcentage of rated current 10% 20%	30% 40	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%

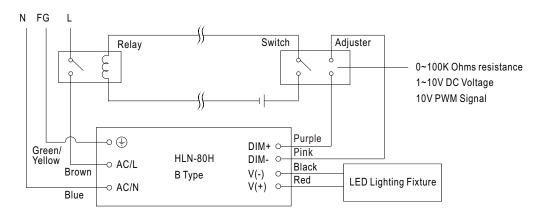


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WUsing the built-in dimming function on B-type model can't turn the lighting fixture totally dark. Please refer to the connection method below to achieve 0% brightness of the lighting fixture connecting to the LED power supply unit.
 WDirect connecting 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.