

Наличие и актуальные цены на

HLN-80H-24B

https://www.mean-well.ru/store/HLN-80H-24B/

User's Manual





■ 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
- 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





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.

■ GTIN CODE

SPECIFIC	ATION													
MODEL		HLN-80H-12	HLN-80H-15	HLN-80H-20	HLN-80H-24	HLN-80H-30	HLN-80H-36	HLN-80H-42	HLN-80H-48	HLN-80H-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	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				
OUTPUT	CURRENT ADJ. RANGE	Can be adjusted by internal potentiometer A type only												
		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	d ; B type 1200	ms,200ms/11	5VAC 500ms	,200ms/230V	AC at 95% Ic				
	HOLD UP TIME (Typ.)	-	200ms,80ms/115VAC 500ms,80ms/230VAC at full load; B type 1200ms,200ms/115VAC 500ms,200ms/230VAC at 16ms at full load 230VAC /115VAC											
		90 ~ 305VAC 127 ~ 431VDC												
	FREQUENCY RANGE	47 ~ 63Hz	.=											
	POWER FACTOR (Typ.)													
	TOTAL HARMONIC DISTORTION		PF>0.96/115VAC, PF>0.96/230VAC, PF>0.94/277VAC at full load (Please refer to "Power Factor Characteristic" curve) THD< 20% when output loading≧60% at 115VAC/230VAC input and output loading≧75% at 277VAC input											
INPUT	EFFICIENCY (Typ.)	88%	89%	90%	90.5%	91%	91%	91%	91%	91%				
01	AC CURRENT (Typ.)				-		3170	3170	3170	3170				
	INRUSH CURRENT(Typ.)		0.85A / 115VAC											
	MAX. No. of PSUs on 16A	3 units (circuit breaker of type B) / 6 units (circuit breaker of type C) at 230VAC												
	CIRCUIT BREAKER													
	LEAKAGE CURRENT	<0.75mA / 277VAC												
	OVER CURRENT Note.4	95 ~ 108%												
		Protection type : Constant current limiting, recovers automatically after fault condition is removed Hiccup mode, recovers automatically after fault condition is removed												
	SHORT CIRCUIT	Hiccup mode,	recovers auto	matically after	fault condition	is removed								
PROTECTION	OVER VOLTAGE	14 ~ 17V	18 ~ 24V	23 ~ 30V	28 ~ 35V	35 ~ 43V	41 ~ 49V	48 ~ 58V	54 ~ 63V	59 ~ 68V				
	OVERVOLINGE	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												
ENVIRONMENT	STORAGE TEMP., HUMIDITY	-40 ~ +80°C,	10 ~ 95% RH											
	TEMP. COEFFICIENT	±0.03%/℃ (0	~40°C)											
	VIBRATION	10 ~ 500Hz, 2G 12min./1cycle, period for 72min. each along X, Y, Z axes												
	CAFETY CTANDADDC No. 1	UL8750, CSA	C22.2 No. 25	0.0-08, BS EN	I/EN 61347-1,	BS EN/EN 613	347-2-13 indep	pendent ; IP64	,					
	SAFETY STANDARDS Note.7	EAC TP TC 004 approved ; Design refer to UL60950-1												
SAFETY &	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC												
EMC	ISOLATION RESISTANCE	I/P-O/P, I/P-F	G, O/P-FG:10	00M Ohms / 50	0VDC / 25°C /	70% RH								
	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												
	EMC IMMUNITY	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 r	nin. Telcordi	ia SR-332(Bell	core); 316.2K	hrs min. MIL	-HDBK-217F ((25°C)						
OTHERS	DIMENSION	181*61.5*35n		`			,	· ·						
*	PACKING		13Kg/0.87CUF	-T										
NOTE	All parameters NOT specially m Ripple & noise are measured at Tolerance : includes set up tolet Please refer to "DRIVING METI	entioned are measured at 230VAC input, rated load and 25℃ of ambient temperature. 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. ance, line regulation and load regulation. HODS OF LED MODULE". low input voltages. Please check the static characteristics for more details.												

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

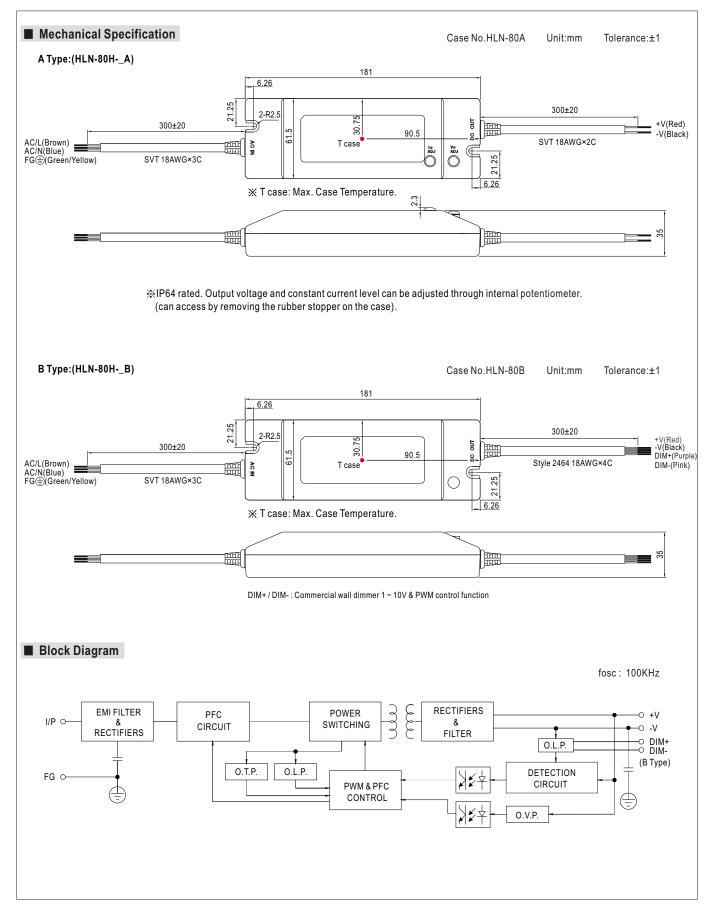
 (as available on https://www.meanwell.com/I/Upload/PDF/EMI statement en.pdf)

 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.

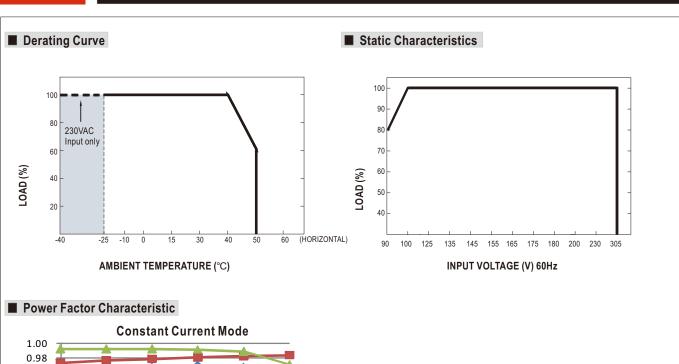
 11. The ambient temperature derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500ft).

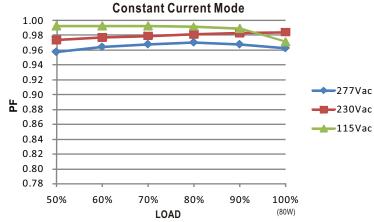
 12. For any application note and IP water proof function installation caution, please refer our user manual before using. https://www.meanwell.com/Upload/PDF/LED_EN.pdf
- 💥 Product Liability Disclaimer : For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx





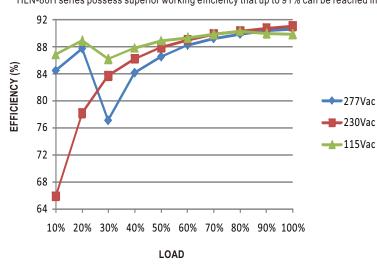






■ EFFICIENCY vs LOAD (48V Model)

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



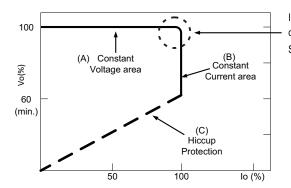


■ DRIVING METHODS OF LED MODULE

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).

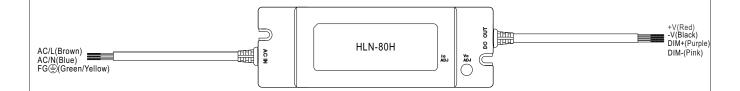


Typical LED power supply I-V curve

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.

■ 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 ~ 10 V dc or 10 V PWM signal between DIM+ and DIM-.
- ※ Please DO NOT connect "DIM-" to "-V".
- ※ Reference resistance value for output current adjustment (Typical)

Resistance	Single driver	10ΚΩ	20ΚΩ	30ΚΩ	40ΚΩ	50ΚΩ	60ΚΩ	70ΚΩ	80ΚΩ	90ΚΩ	100ΚΩ	OPEN
value	Multiple drivers	10KΩ/N	20KΩ/N	30KΩ/N	40KΩ/N	50KΩ/N	60KΩ/N	70KΩ/N	80KΩ/N	90KΩ/N	100KΩ/N	
Percentage of rated current		10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	95%~108%

3 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%

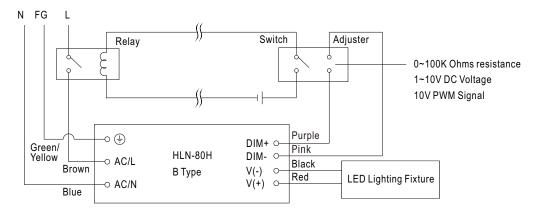
¾ 10V PWM signal for output current adjustment (Typical): Frequency range: 100Hz ~ 3KHz

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.
- *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.