

Наличие и актуальные цены на

HLN-40H-24A

https://www.mean-well.ru/store/HLN-40H-24A/

User's Manual





MW Search: https://www.meanwell.com/serviceGTIN.aspx

■ GTIN CODE

■ 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
- 3 years warranty











 $HLN-40H-12\boxed{A} \quad A: IP64\ rated.\ Output\ voltage\ and\ constant\ current\ level\ can\ be\ adjusted\ through\ internal\ potentiometer.$

B: IP64 rated. Constant current level adjustable through output cable with 1~10Vdc or 10V PWM signal or resistance.

SPECIFICATION

MODEL		HLN-40H-12	HLN-40H-15	HLN-40H-20	HLN-40H-24	HLN-40H-30	HLN-40H-36	HLN-40H-42	HLN-40H-48	HLN-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	40W	40W	40W	40.1W	40.2W	40.3W	40.3W	40.3W	40.5W				
	RIPPLE & NOISE (max.) Note.2	150mVp-p	150mVp-p	150mVp-p	150mVp-p	200mVp-p	200mVp-p	300mVp-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	CURRENT AR L RANGE	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.7	500ms, 80ms at full load 230VAC / 115VAC												
	HOLD UP TIME (Typ.)	16ms/230VAC 16ms/115VAC at full load												
	VOLTAGE RANGE Note.5	90 ~ 305VAC	127 ~ 431	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	nen output loa	ding≧60% at 1	15VAC/230VA	C input and ou	ıtput loading≧	75% at 277VA	C input					
INPUT	EFFICIENCY (Typ.)	86.5%	86.5%	87.5%	88%	88.5%	88.5%	88.5%	89%	89%				
	AC CURRENT (Typ.)	0.43A / 115VAC												
	INRUSH CURRENT(Typ.)	COLD START 50A(twidth=210µs measured at 50% Ipeak) 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												
	OVER CURRENT Note.4	95 ~ 108%												
	OVER CORRENT 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	OVER VOLTAGE	15 ~ 21V	18 ~ 24V	23 ~ 30V	28 ~ 35V	35 ~ 43V	41 ~ 49V	48 ~ 58V	54 ~ 65V	59 ~ 68V				
		Protection typ	e : Shut down	o/p voltage, re-	power on to re	cover								
	OVER TEMPERATURE	Shut down o/p voltage, re-power on to recover												
	WORKING TEMP.	-40 ~ +50°C (Refer to "Derat	ting Curve")										
	WORKING HUMIDITY	20 ~ 95% RH non-condensing												
ENVIRONMENT	STORAGE TEMP., HUMIDITY	-40 ~ +80°C, 10 ~ 95% RH												
	TEMP. COEFFICIENT	±0.03%/°C (0~40°C)												
	VIBRATION			le, period for 7	'2min, each ald	ong X. Y. Z axes								
	SAFETY STANDARDS	10 ~ 500Hz, 2G 12min./1cycle, period for 72min. each along X, Y, Z axes 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, BS EN/EN60335-1												
SAFETY &	WITHSTAND VOLTAGE	I/P-O/P:3.75	KVAC I/P-F0	G:2KVAC O	P-FG:0.5KVA	С								
EMC	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C / 70% RH												
	EMC EMISSION	-				ass C (≧60% lo	ad) : BS EN/EN	N61000-3-3. EA	AC TP TC 020					
	EMC IMMUNITY		BS EN/EN61			EN61547, BS E),				
	MTBF	3396.4K hrs n	nin. Telcordi	a SR-332(Bell	core); 346.2K	hrs min. MIL	-HDBK-217F (25°C)						
OTHERS	DIMENSION	161*61.5*35mm (L*W*H)												
-	PACKING	0.35Kg;32pcs/12.2Kg/1.10CUFT												
NOTE	All parameters NOT specially m Ripple & noise are measured at Tolerance: includes set up tole Please refer to "DRIVING METI	entioned are measured at 230VAC input, rated load and 25°C 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.												

- 6. A type only.

 7. 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.

 8. 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/EMI_statement_en.pdf)

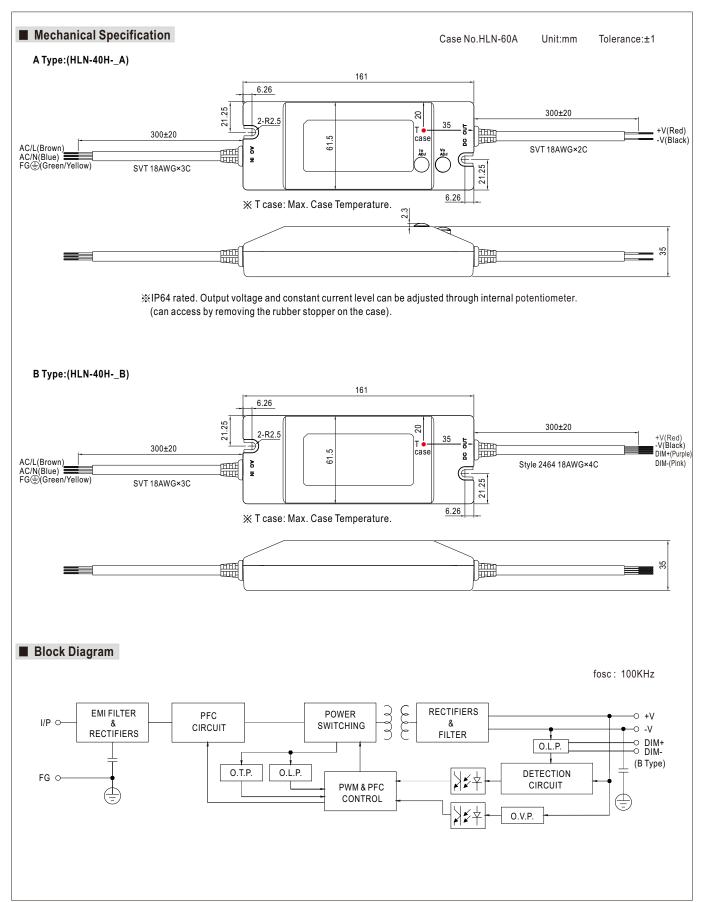
 9. To fulfill requirements of the latest ErP regulation for lighting fixtures, this LED power supply can only be used behind a switch without permanently connected to the mains.
- connected to the mains.

 10. 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).

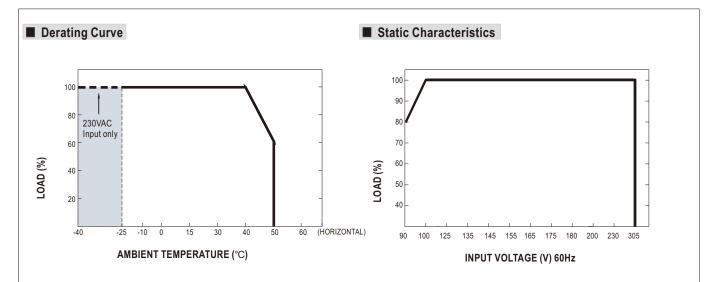
 11. For any application note and IP water proof function installation caution, please refer our user manual before using.

 https://www.meanwell.com/Upload/PDF/LED_EN.pdf
- × Product Liability Disclaimer : For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx

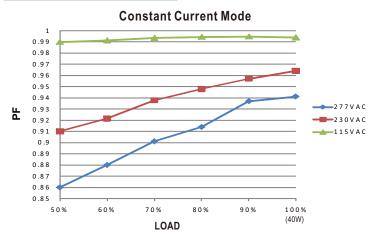






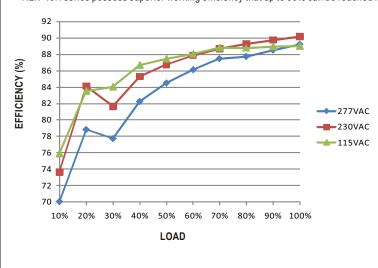


■ Power Factor Characteristic



■ EFFICIENCY vs LOAD (48V Model)

HLN-40H series possess superior working efficiency that up to 89% can be reached in field applications.



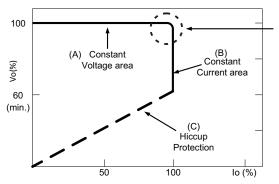


■ DRIVING METHODS OF LED MODULE

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).

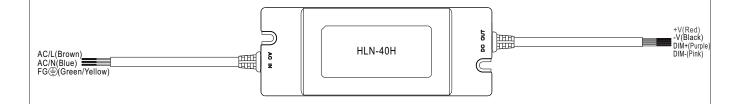


Typical LED power supply I-V curve

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%

% 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

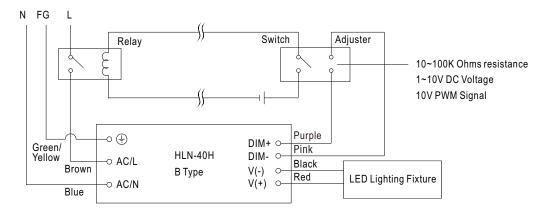
Duty value	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	OPEN
Percentage of rated current	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	95%~108%



**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.

 $\label{lighting} \mbox{Dimming connection diagram for turning the lighting fixture ON/OFF:}$



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.