

Наличие и актуальные цены на

HLN-60H-54B

https://www.mean-well.ru/store/HLN-60H-54B/





■ 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

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











■ GTIN CODE

HLN-60H-15 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-60H-15	HLN-60H-20	HLN-60H-24	HLN-60H-30	HLN-60H-36	HLN-60H-42	HLN-60H-48	HLN-60H-54				
	DC VOLTAGE	15V	20V	24V	30V	36V	42V	48V	54V				
	CONSTANT CURRENT REGION Note.4	9 ~ 15V	12 ~ 20V	14.4 ~ 24V	18 ~ 30V	21.6 ~ 36V	25.2 ~ 42V	28.8 ~ 48V	32.4 ~ 54V				
	RATED CURRENT	4A	3A	2.5A	2A	1.7A	1.45A	1.3A	1.15A				
	RATED POWER	60W	60W	60W	60W	61.2W	60.9W	62.4W	62.1W				
	RIPPLE & NOISE (max.) Note.2	150mVp-p	150mVp-p	150mVp-p	200mVp-p	200mVp-p	300mVp-p	300mVp-p	300mVp-p				
	VOLTAGE ADJ. RANGE Note.6	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	2.4 ~ 4A	1.8 ~ 3A	1.5 ~ 2.5A	1.2 ~ 2A	1 ~ 1.7A	0.87 ~ 1.45A	0.78 ~ 1.3A	0.69 ~ 1.15A				
	VOLTAGE TOLERANCE Note.3	±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%				
	LOAD REGULATION	±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 230\	/AC / 115VAC		L	L	II.					
	HOLD UP TIME (Typ.)	16ms/230VAC											
		90 ~ 305VAC	127 ~ 431VD	AC at full load									
	FREQUENCY RANGE	47 ~ 63Hz											
	POWER FACTOR (Typ.)		C PE>0 95/230\	/AC PF>0 92/27	77VAC at full load	l (Please refer to	"Power Factor (Characteristic" cu	irve)				
	TOTAL HARMONIC DISTORTION		,		C/230VAC input				11 40)				
INPUT	EFFICIENCY (Typ.)	87%	88.5%	89%	89.5%	90%	90%	90.5%	90.5%				
	AC CURRENT (Typ.)	0.64A / 115VAC			/ 277VAC	3070	3070	30.070	30.070				
	INRUSH CURRENT(Typ.)	COLD START 55A(twidth=265µs measured at 50% Ipeak) at 230VAC											
	MAX. No. of PSUs on 16A CIRCUIT BREAKER	9 units (circuit breaker of type B) / 16 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	Hiccup mode, recovers automatically after fault condition is removed											
PROTECTION		18 ~ 24V	23 ~ 30V	28 ~ 35V	35 ~ 43V	41 ~ 49V	48 ~ 58V	54 ~ 65V	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 n											
ENVIRONMENT	STORAGE TEMP., HUMIDITY	-40 ~ +80°C, 10 ~ 95% RH											
	TEMP. COEFFICIENT	±0.03%/°C (0~40°C)											
	VIBRATION	10 ~ 500Hz, 2G 12min./1cycle, period for 72min. each along X, Y, Z axes											
	SAFETY STANDARDS	UL8750, CSA	22.2 No. 250.0-	08, BS EN/EN 6	1347-1, BS EN/E 1950-1, BS EN/E	N 61347-2-13 ir	ndependent, IP6	4,					
SAFETY &	WITHSTAND VOLTAGE	I/P-O/P:3.75K	VAC I/P-FG:2I	KVAC O/P-FG	3:0.5KVAC								
EMC	ISOLATION RESISTANCE					1							
.		I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C / 70% RH Compliance to BS EN/EN55015, BS EN/EN61000-3-2 Class C (≧60% load) ; BS EN/EN61000-3-3,											
	EMC EMISSION	EAC TP TC 020)										
	EMC EMISSION EMC IMMUNITY		BS EN/EN61000	-4-2,3,4,5,6,8,11	; BS EN/EN6154	7, BS EN/EN550	024, light industry	y level (surge 4K	V),				
		Compliance to	BS EN/EN61000)		; BS EN/EN6154 ; 347.4K hrs min.			y level (surge 4K	V),				
OTHERS	EMC IMMUNITY	Compliance to EAC TP TC 020	BS EN/EN61000) n. Telcordia S					y level (surge 4K	V),				
OTHERS	EMC IMMUNITY MTBF	Compliance to EAC TP TC 020 3400.0K hrs mi 161*61.5*35mr	BS EN/EN61000) n. Telcordia S	R-332(Bellcore)				y level (surge 4K	V),				

- All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.
 Ripple & noise are measured 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".
 Derating may be needed under low input voltages. Please check the static characteristics for more details.
 A type only.
 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//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.

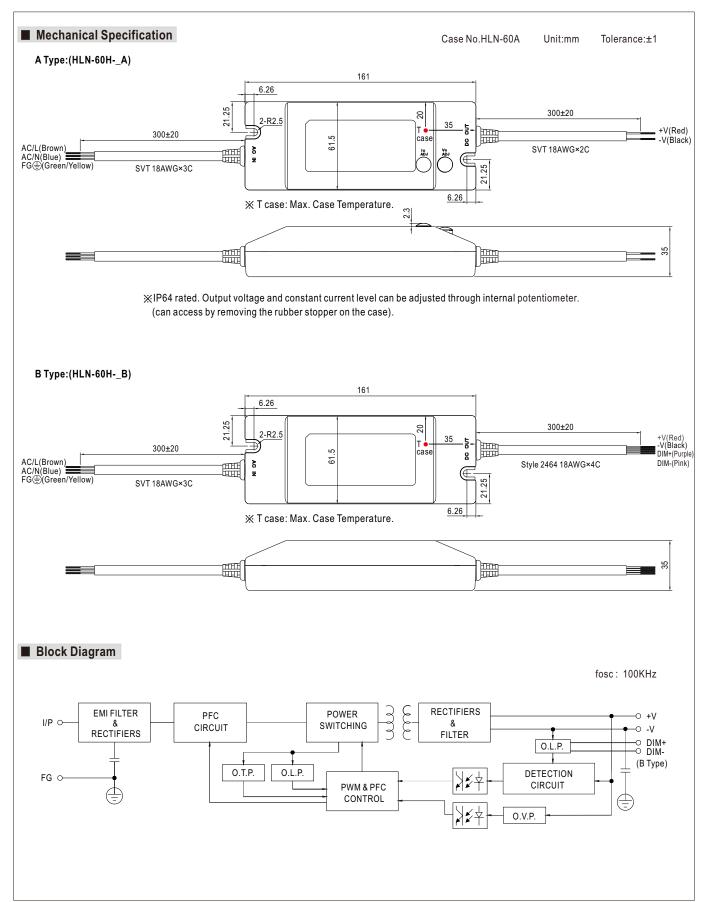
- 9. To fulfill requirements of the latest EPP regulation for lighting fixtures, this LED power supply can only be used benind a switch without permanently connected to the mains.

 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).

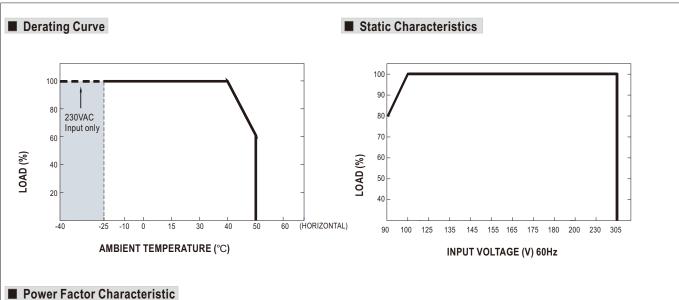
 11. For any application note and IP water proof function installation caution, please refer our user manual before using. https://www.meanwell.com/upload/PDF/LED_EN.pdf

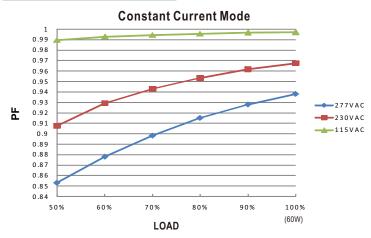
 22. Product Liability Disclaimer: For detailed information, please refer to https://www.meanwell.com/upload/PDF/LED_EN.pdf





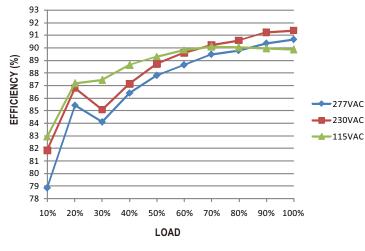






■ EFFICIENCY vs LOAD (48V Model)

 $HLN-60H\ series\ possess\ superior\ working\ efficiency\ that\ up\ to\ 90.5\%\ can\ be\ reached\ in\ field\ applications.$



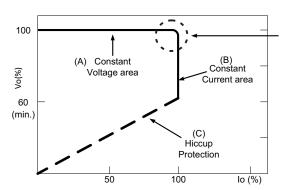


■ DRIVING METHODS OF LED MODULE

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).

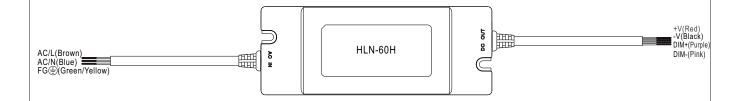


Typical LED power supply I-V curve

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)



- ※ 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-.
- $\ensuremath{\ensuremath{\%}}$ Please DO NOT connect "DIM-" to "-V".
- ※ Reference resistance value for output current adjustment (Typical)

Resistance value	Single driver	10ΚΩ	20ΚΩ	30ΚΩ	40ΚΩ	50ΚΩ	60ΚΩ	70ΚΩ	80ΚΩ	90ΚΩ	100ΚΩ	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%

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%

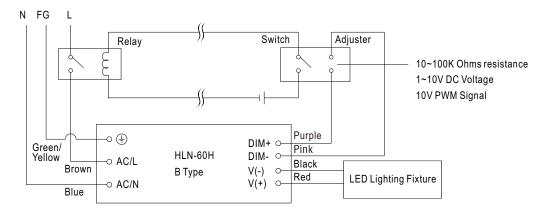
* 10V PWM signal for output current adjustment (Typical): Frequency range:100Hz ~ 3KHz

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.

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



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.