

Наличие и актуальные цены на

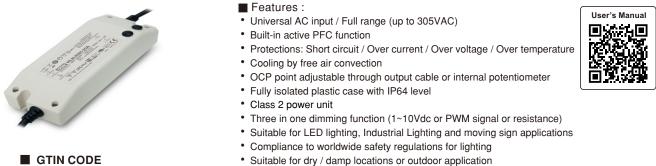
# HLN-60H-42A

https://www.mean-well.ru/store/HLN-60H-42A/



#### 60W Single Output Switching Power Supply

#### HLN-60H series



- MW Search: https://www.meanwell.com/serviceGTIN.aspx
- <u>Naspx</u> ・3 years warranty 阌 ⑦ <sup>™</sup> ◎ 𝖤 𝖤 selv IP64 🕞 வே 📾 🚛 []][ CBCEど

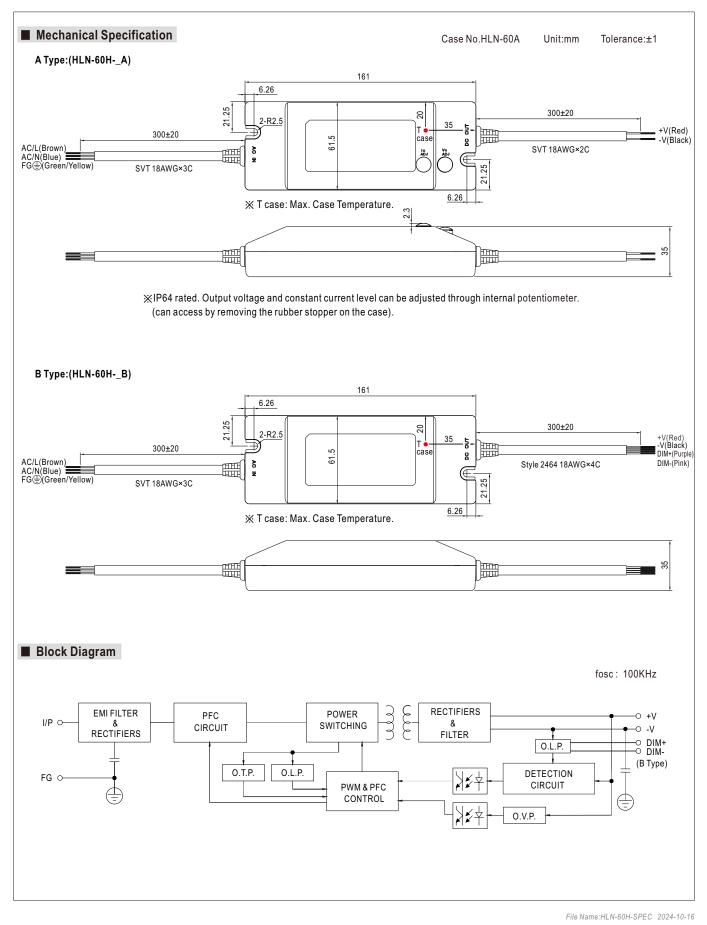
 HLN-60H-15 A
 A : IP64 rated. Output voltage and constant current level can be adjusted through internal potentiometer.

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

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						
OUTPUT	VOLTAGE ADJ. RANGE Note.6		17 ~ 22V	22~27V	27~33V	33~40V	40~46V	44 ~ 53V	49~58V						
			d by internal pote		1										
	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		±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%						
		500ms, 80ms at	1	/AC / 115VAC											
	HOLD UP TIME (Typ.)	16ms/230VAC													
		16ms/230VAC         16ms/115VAC at full load           90 ~ 305VAC         127 ~ 431VDC													
	FREQUENCY RANGE	90 ~ 305VAC 127 ~ 431VDC 47 ~ 63Hz													
		PF>0.98/115VAC, PF>0.95/230VAC, PF>0.92/277VAC at full load (Please refer to "Power Factor Characteristic" curve)													
	POWER FACTOR (Typ.) TOTAL HARMONIC DISTORTION	THD< 20% when output loading≧60% at 115VAC/230VAC input and output loading≧75% at 277VAC input													
INPUT		87%	88.5%	ĩ	89.5%	90%	90%		90.5%						
	EFFICIENCY (Typ.)			89%		90%	90%	90.5%	90.5%						
	AC CURRENT (Typ.)	0.64A / 115VAC 0.32A / 230VAC 0.3A / 277VAC													
	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													
ROTECTION		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	on-condensing	,											
ENVIRONMENT	STORAGE TEMP., HUMIDITY	-40 ~ +80°C, 10	) ~ 95% RH												
	TEMP. COEFFICIENT	±0.03%/°C (0~													
	VIBRATION		,	period for 72mi	n. each along X, '	V 7 aves									
				•			idenendent IPA	4							
	SAFETY STANDARDS	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:3.75K	VAC I/P-FG:2	KVAC O/P-F	G:0.5KVAC										
EMC	ISOLATION RESISTANCE	I/P-O/P, I/P-FG	G, O/P-FG:100M	Ohms / 500VD	C / 25℃/ 70% R	Н									
	EMC EMISSION	Compliance to BS EN/EN55015, BS EN/EN61000-3-2 Class C (≧60% 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), EAC TP TC 020													
	MTBF	3400.0K hrs mi	n. Telcordia S	R-332(Bellcore)	; 347.4K hrs mir	n. MIL-HDBK-2	217F (25°C)								
OTHERS	DIMENSION	161*61.5*35mr	n (L*W*H)												
	PACKING	0.46Kg;32pcs/1	5.7Kg/1.10CUF	Т											
NOTE	<ul> <li>1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.</li> <li>2. Ripple &amp; noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf &amp; 47uf parallel capacitor.</li> <li>3. Tolerance : includes set up tolerance, line regulation and load regulation.</li> <li>4. Please refer to "DRIVING METHODS OF LED MODULE".</li> <li>5. Derating may be needed under low input voltages. Please check the static characteristics for more details.</li> <li>6. A type only.</li> <li>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.</li> <li>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.</li> <li>(as available on https://www.meanwell.com//Upload/PDF/EMI_statement_en.pdf)</li> <li>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.</li> </ul>														
		rature derating of 3.5 <sup>°</sup> C/1000m with fanless models and of 5 <sup>°</sup> C/1000m with fan models for operating altitude higher than 2000m(6500ft). note and IP water proof function installation caution, please refer our user manual before using. rell.com/Upload/PDF/LED_EN.pdf Caimer : For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx File Name:HLN-60H-SPEC 2024-1													



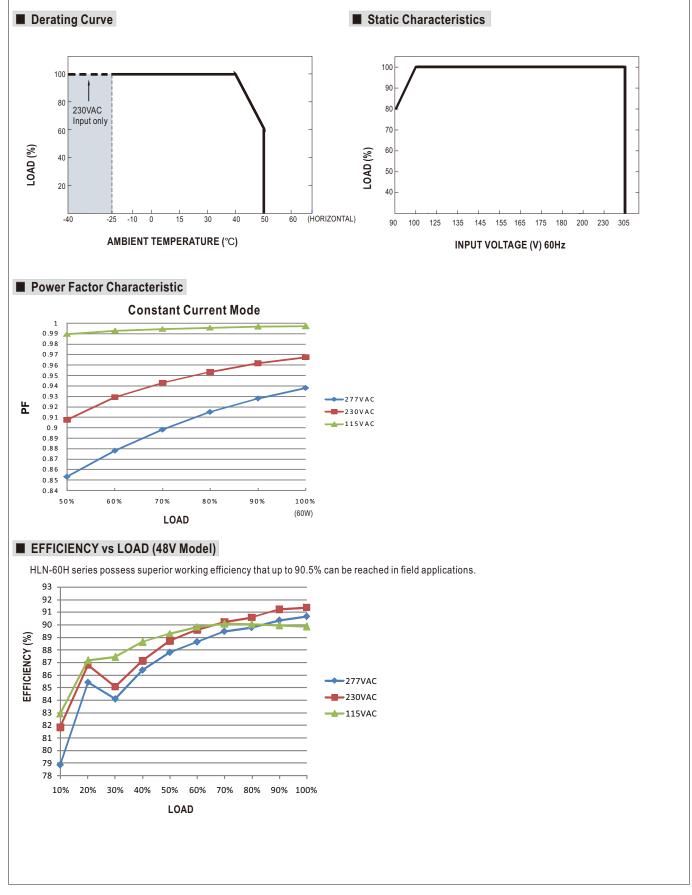
## HLN-60H series





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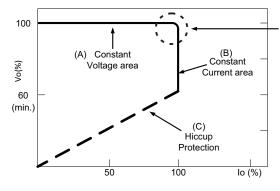
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#### DRIVING METHODS OF LED MODULE

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.

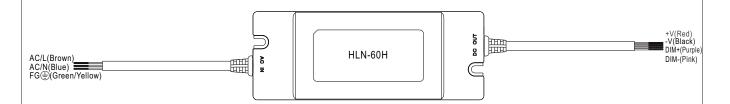
Mean Well's LED power supply with CV+ CC characteristic can be operated at both CV mode (with LED driver, at area (A) and CC mode (direct drive, at area (B).



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	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 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

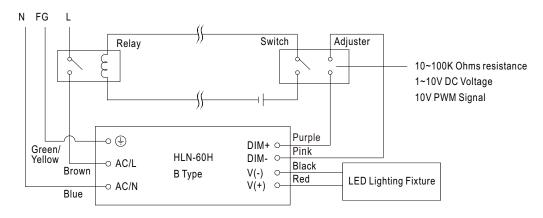
Duty value	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	OPEN
Percentage of rated current	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	95%~108%



## HLN-60H series

%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  $\mathsf{ON}/\mathsf{OFF}$  :



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.