

Наличие и актуальные цены на

HLP-60H-24

https://www.mean-well.ru/store/HLP-60H-24/







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

■ 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
- Output constant current level adjustable
- · Class 2 power unit
- Three in one dimming function (1~10Vdc or PWM signal or resistance)
- Suitable for built in LED lighting system
- Suitable for dry / damp locations
- 100% full load burn-in test

• 3 years warranty



SPECIFICATION

■ GTIN CODE

SELV R (for 48V,54V only) (except for 48V,54V) [[[CBCEK

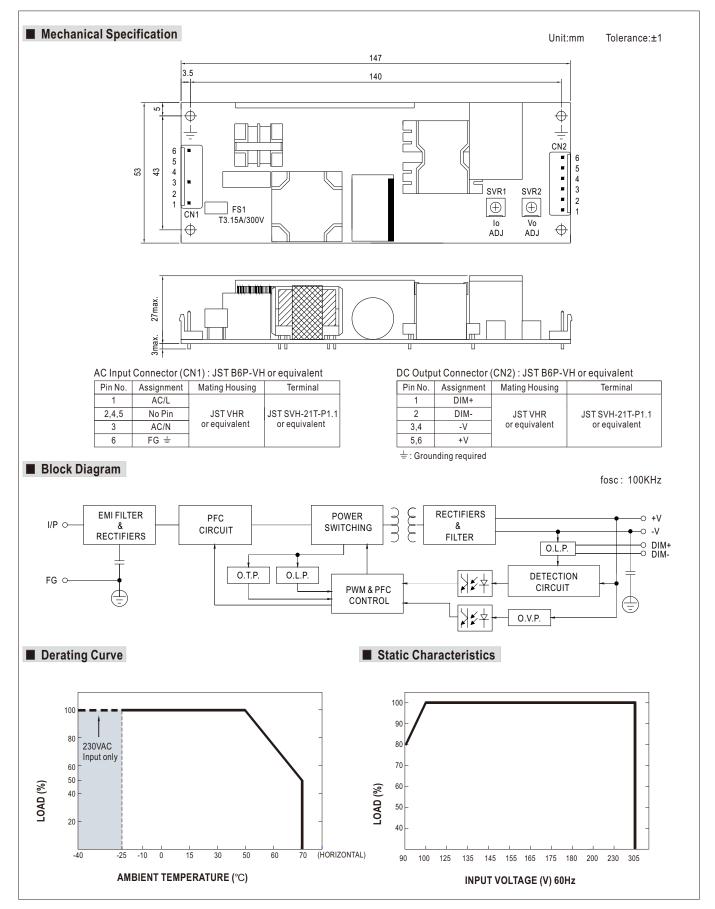
MODEL		HLP-60H-15	HLP-60H-20	HLP-60H-24	HLP-60H-30	HLP-60H-36	HLP-60H-42	HLP-60H-48	HLP-60H-54				
DC VOLTAGE		15V	20V	24V	30V	36V	42V	48V	54V				
	CONSTANT CURRENT REGION Note.4	9 ~ 15V	12 ~ 20V	14.4 ~ 24V	18 ~ 30V	21.6 ~ 36V	25.2 ~ 42V	28.8 ~ 48V	32.4 ~ 54V				
	RATED CURRENT	4A	3A	2.5A	2A	1.7A	1.45A	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	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											
	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.6	500ms, 80ms at	full load 230\	VAC / 115VAC	•			'					
	HOLD UP TIME (Typ.)	16ms/230VAC	16ms/115\	VAC at full load									
	VOLTAGE RANGE Note.5	90 ~ 305VAC	127 ~ 431VD)C									
	FREQUENCY RANGE	47 ~ 63Hz											
	POWER FACTOR (Typ.)	PF>0.98/115VA	C, PF>0.95/230	VAC, PF>0.92/2	77VAC at full load	d (Please refer to	"Power Factor 0	Characteristic" c	urve)				
	TOTAL HARMONIC DISTORTION	THD< 20% whe	PF>0.98/115VAC, PF>0.95/230VAC, PF>0.92/277VAC 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%	89.5%	90%	90%	90%	90.5%	90.5%				
	AC CURRENT (Typ.)	0.64A / 115VAC	0.32A / 23		./ 277VAC		II.						
	INRUSH CURRENT (Typ.)	COLD START 55A(twidth=265µs measured at 50% lpeak) 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 OURDENT	95 ~ 108%											
	OVER CURRENT 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	18 ~ 24V	23 ~ 30V	28 ~ 35V	35 ~ 43V	41 ~ 49V	48 ~ 58V	54 ~ 65V	59 ~ 68V				
		Protection type : Shut down o/p voltage, re-power on to recover											
	OVER TEMPERATURE	Shut down o/p											
	WORKING TEMP.	-40 ~ +70°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%°C (0~50°C)											
	VIBRATION	10 ~ 500Hz, 2G 12min./1cycle, period for 72min. each along X, Y, Z axes											
		UL8750, CSA C22.2 No. 250.0-08 (except for 48V, 54V), BS EN/EN61347-1, BS EN/EN61347-2-13,											
	SAFETY STANDARDS	EAC TP TC 004 approved; design refer to UL60950-1, BS EN/EN60335-1											
SAFETY &	WITHSTAND VOLTAGE			KVAC O/P-F0									
EMC	ISOLATION RESISTANCE					H							
	EMC EMISSION	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, 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	3130.5K hrs min. Telcordia SR-332(Bellcore) ; 288.5K hrs min. MIL-HDBK-217F (25°C)											
OTHERS	DIMENSION	147*53*27mm (L*W*H)											
	PACKING	0.2Kg;72pcs/15.4Kg/1.01CUFT											
	1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.												

NOTE

- 2. 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".

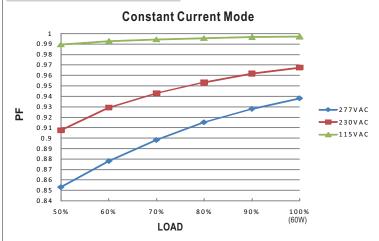
- 5. Derating may be needed under low input voltages. Please check the static characteristics for more details.
 6. Length of set up time is measured at cold first start. Turning ON/OFF the power supply may lead to increase of the set up time.
 7. The power supply is considered a component which will be installed into a final equipment. All the EMC tests are been executed by mounting the unit on
- a 360mm*360mm metal plate with 1mm of thickness. The final equipment must be re-confirmed that it still meets EMC directives. For guidance on how to perform these EMC tests, please refer to "EMI testing of component power supplies." (as available on https://www.meanwell.com//Upload/PDF/EMI_statement_en.pdf)
- 8. Direct connecting to LEDs is suggested, but is not suitable for using additional drivers.
- 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.
- % Product Liability Disclaimer: For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx





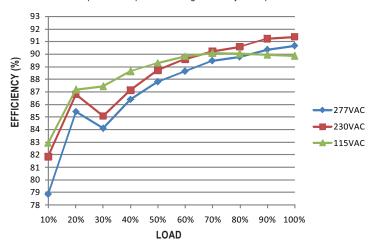


■ Power Factor Characteristic



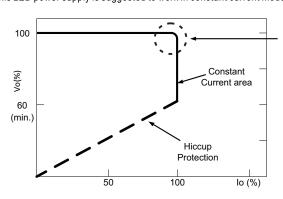
■ EFFICIENCY vs LOAD (48V Model)

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



■ DRIVING METHODS OF LED MODULE

This LED power supply is suggested to work in constant current mode area (CC) to drive the LEDs.



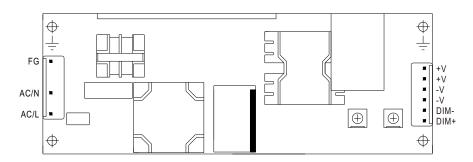
Typical LED power supply I-V curve

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



- Output constant current level can be adjusted through output connector by 1~10VDC, PWM signal, or connecting a resistance 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 (N=driver quantity for synchronized dimming operation)	10KΩ/N	20ΚΩ/Ν	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)

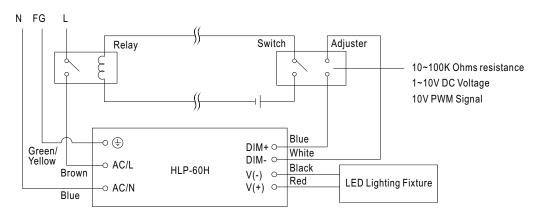
Dimming value	1V	2V	3V	4V	5V	6V	7V	8V	9V	10V	OPEN
Percentage of rated current	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	95%~108%

* 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%

**Wusing the built-in dimming function 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.

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 connector 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.