



■ 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

SPECIF	ICATION
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MODEL		HI P-80H-12	HI P-80H-15	HI P-80H-20	HI P-80H-24	HLP-80H-30	HI P-80H-36	HI P-80H-42	HI P-80H-48	HI P-80H-5						
	DC VOLTAGE	12V	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	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	200mVp-p	200mVp-p	200mVp-p	200mVp-p	200mVp-p						
OUTPUT	VOLTAGE ADJ. RANGE	10.8 ~ 13.5V		17 ~ 22V	22 ~ 27V	27 ~ 33V	33 ~ 40V	38 ~ 46V	43 ~ 53V	49 ~ 58V						
	CURRENT ADJ. RANGE		ted by internal		0.70 0.44	0.40 0.74	4.04 0.04	4.50 4.054	4.00 4.74	10 150						
	VOLTAGE TOLERANCE Note.3	4 ~ 5A ±2.5%	4 ~ 5A ±2.0%	3.2 ~ 4A ±1.0%	2.72 ~ 3.4A ±1.0%	2.16 ~ 2.7A ±1.0%	1.84 ~ 2.3A ±1.0%	1.56 ~ 1.95A ±1.0%	1.36 ~ 1.7A ±1.0%	1.2 ~ 1.5A ±1.0%						
	LINE REGULATION	±0.5%	±0.5%	±0.5%	±0.5%	±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%						
		1200ms,200r		· ·	1/230 VAC at 93	0% 10au										
	HOLD UP TIME (Typ.) VOLTAGE RANGE Note.5		ad 230VAC													
	VOLTAGE RANGE Note.5 FREQUENCY RANGE		90 ~ 305VAC 127 ~ 431VDC 47 ~ 63Hz													
	POWER FACTOR (Typ.)	47 ~ 63Hz PF>0.96/115VAC, PF>0.96/230VAC, PF>0.94/277VAC at full load (Please refer to "Power Factor Characteristic" curve)														
	TOTAL HARMONIC DISTORTION					•				<i>(e)</i>						
INPUT	EFFICIENCY (Typ.)	87.5%								00%						
INFUI	(• . ,		87.5% 88.5% 89.5% 90%													
	AC CURRENT (Typ.) INRUSH CURRENT(Typ.)				d at 50% Ipeak											
	, , ,	COLDSTAR	I TOA(IWIUIII-3	zoμs measurer	u at 50% ipeak) at 230VAC										
	MAX. No. of PSUs on 16A CIRCUIT BREAKER	3 units (circui	3 units (circuit breaker of type B) / 5 units (circuit breaker of type C) at 230VAC													
	LEAKAGE CURRENT	<0.75mA/27	7VAC													
	OVER CURRENT Note.4	95 ~ 108%														
	OVER CURRENT Note.4	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	OVED VOLTAGE	14 ~ 17V	18 ~ 24V	23 ~ 30V	28 ~ 35V	35 ~ 43V	41 ~ 49V	48 ~ 58V	54 ~ 63V	59 ~ 68V						
	OVER VOLTAGE	Protection typ	oe : Shut down	o/p voltage, re	-power on to re	ecover										
	OVER TEMPERATURE	Shut down o/	p voltage, re-po	ower on to reco	over				277VAC input 90% 90%							
	WORKING TEMP.		Refer to "Derat													
	WORKING HUMIDITY	20 ~ 95% RH	non-condensir	ng												
ENVIRONMENT	STORAGE TEMP., HUMIDITY	-40 ~ +80°C,	10 ~ 95% RH													
	TEMP. COEFFICIENT	±0.03%/°C (0) ~ 50°C)													
	VIBRATION	,		cle, period for	72min. each al	ong X, Y, Z axe	s									
								3, GB19510.1	1, GB19510.1.							
	SAFETY STANDARDS	-		Design refer t												
SAFETY &	WITHSTAND VOLTAGE				/P-FG:0.5KVA	C										
EMC	ISOLATION RESISTANCE				00VDC / 25°C/											
	EMC EMISSION						% load, 12V mo	del ≧65% load)	EN61000-3-3.	EAC TP TC (
	EMC IMMUNITY					5024, light indu										
	MTBF			K-217F (25°C)			j (our	,,, onto	, =/.0 // /							
OTHERS	DIMENSION	167*53*29.5r		(25 0)												
O.IILINO	PACKING		s/11.2Kg/0.670	CUFT												

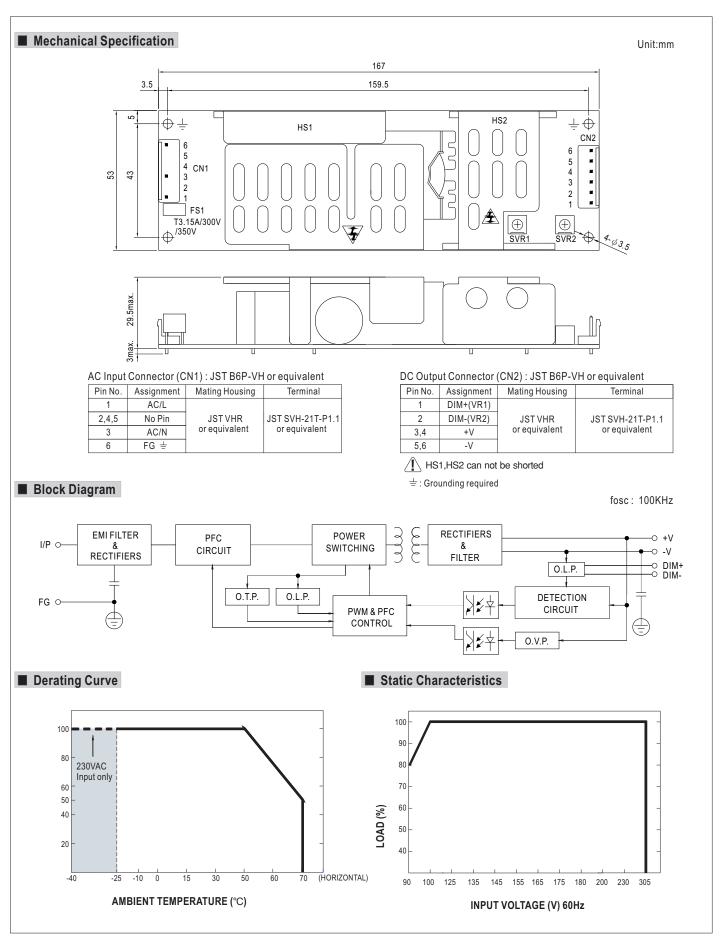
- Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.
 Tolerance: includes set up tolerance, line regulation and load regulation.
 Please refer to "DRIVING METHODS OF LED MODULE".

- 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 http://www.meanwell.com) 8. Heat Sink HS1,HS2 can not be shorted.
- 9. Direct connecting to LEDs is suggested, but is not suitable for using additional drivers.
- 10. 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 File Name:HLP-80H-SPEC 2020-12-1

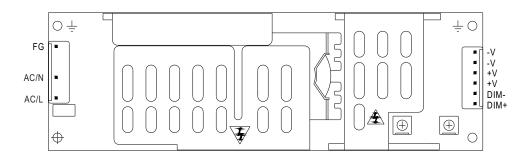








■ DIMMING OPERATION



- 💥 Built-in 3 in 1 dimming function, 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
1	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%

¾ 1 ~ 10V dimming function for output current adjustment (Typical)

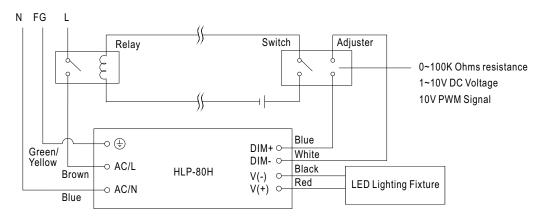
Dimming value	1V	2V	3V	4V	5V	6V	7V	8V	9V	10V	OPEN
Percentage of rated current	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	95%~108%

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 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 ON/OFF:



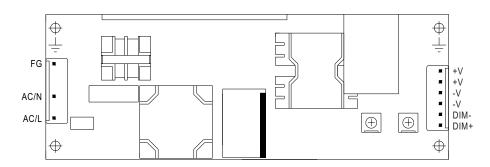
Using a switch and relay can turn ON/OFF the lighting fixture.

- 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.





■ DIMMING OPERATION



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 **Total Control of the Control of Contro between DIM+ and DIM-.
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Percentage	e of rated current	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	95%~108%

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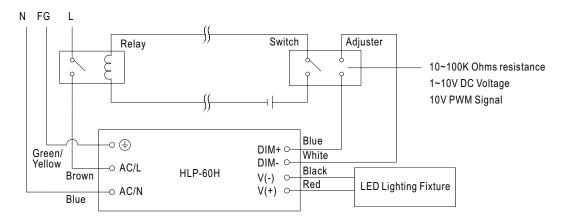
Dimming value	1V	2V	3V	4V	5V	6V	7V	8V	9V	10V	OPEN
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Using a switch and relay can turn ON/OFF the lighting fixture.

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2. The LED lighting fixture can be turned ON/OFF by the switch.



