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# HLP-40H series



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

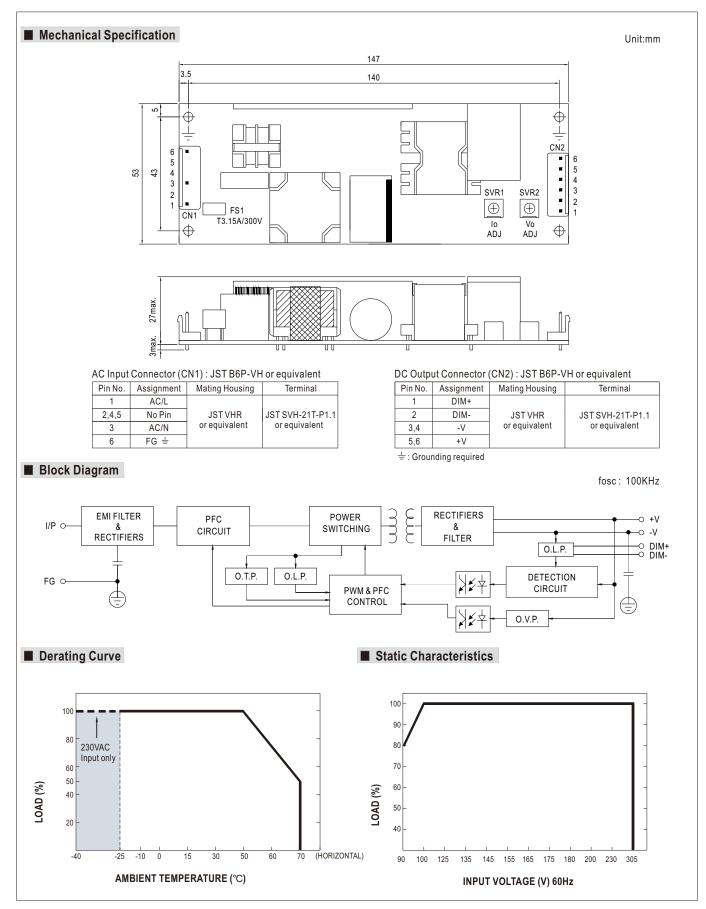
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#### SPECIFICATION

MODEL		HLP-40H-12	HLP-40H-15	HLP-40H-20	HLP-40H-24	HLP-40H-30	HLP-40H-36	HLP-40H-42	HLP-40H-48	HLP-40H-54
	DC VOLTAGE	12V	15V	20V	24V	30V	36V	42V	48V	54V
OUTPUT	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	10.8 ~ 13.5V		17~22V	22~27V	27 ~ 33V	33 ~ 40V	40~46V	44~53V	49~58V
		Can be adjusted by internal potentiometer								
	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		±2.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%
		±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%
		500ms, 80ms a		230VAC / 115VA		20.070	_0.070	_0.070	20.070	20.070
	HOLD UP TIME (Typ.)	16ms/230VAC 16ms/115VAC at full load								
INPUT		90 ~ 305VAC 127 ~ 431VDC								
	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% when output loading≥60% at 115VAC/230VAC input and output loading≥75% at 277VAC input								
		87%	87%	88%	88%	88.5%	89%	89%	89.5%	89.5%
	EFFICIENCY (Typ.) AC CURRENT (Typ.)						09 /0	09 /0	09.5%	09.0 %
		0.43A / 115VAC 0.24A / 230VAC 0.23A / 277VAC								
	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								
PROTECTION	OVER CURRENT Note.4	95 ~ 108%								
		Protection type : Constant current limiting, recovers automatically after fault condition is removed								
	SHORT CIRCUIT	Hiccup mode,	recovers auto	matically after	fault condition	is removed				
	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								
ENVIRONMENT	WORKING TEMP.	-40 ~ +70°C (Refer to "Derating Curve")								
	WORKING HUMIDITY	20 ~ 95% RH non-condensing								
	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								
SAFETY & EMC		UL8750, CSA C22.2 No. 250.0-08 (except for 48V, 54V), EN61347-1, EN61347-2-13, GB19510.14, GB19510.1,								
	SAFETY STANDARDS	EAC TP TC 004 approved ; design refer to UL60950-1, EN60335-1								
	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC								
	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C/ 70% RH								
	EMC EMISSION	Compliance to EN55015, GB17743, GB17625.1, EN61000-3-2 Class C (≧60% load) ; EN61000-3-3, EAC TP TC 020								
		Compliance to EN61000-4-2,3,4,5,6,8,11; EN61547, EN55024, light industry level (surge 4KV), criteria A, EAC TP TC 020								
	MTBF	287.9Khrs min. MIL-HDBK-217F (25°C)								
OTHERS	DIMENSION			1(-2111 (20 0)						
		147*53*27mm (L*W*H) 0.2Ka-72acs/15.4Ka/1.09CLIET								
	PACKING	0.2Kg;72pcs/15.4Kg/1.09CUFT ally mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.								
NOTE	<ul> <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. 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>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)</li> <li>8. Direct connecting to LEDs is suggested, but is not suitable for using additional drivers.</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> <li>* Product Liability Disclaimer : For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx</li> </ul>									

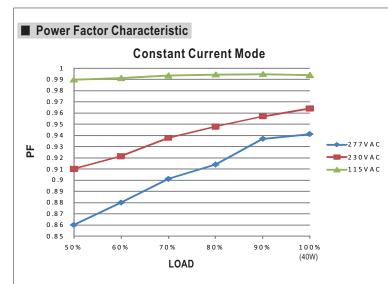


# HLP-40H series



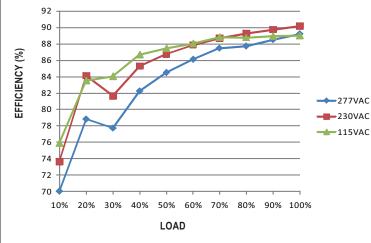


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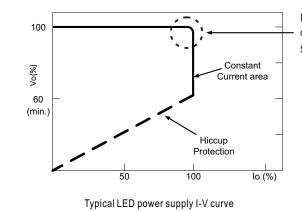
### EFFICIENCY vs LOAD (48V Model)

HLP-40H series possess superior working efficiency that up to 89.5% 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.

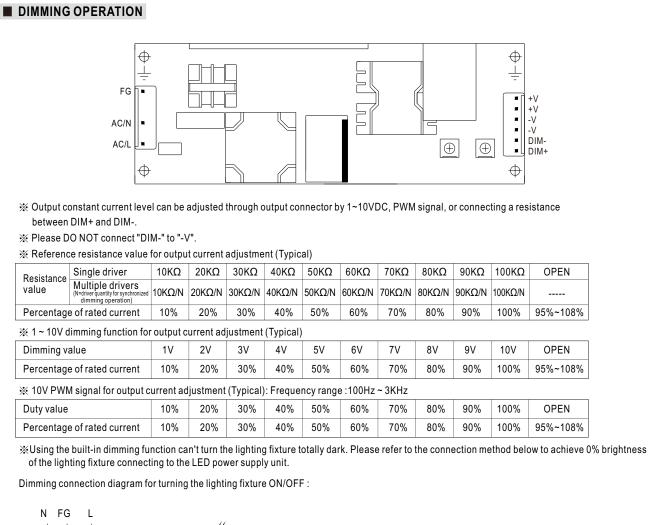


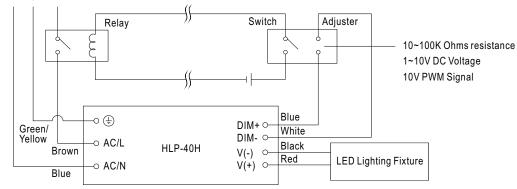
In the constant current region, the highest voltage at the output of the driver depends on the configuration of the end systems.

Should there be any compatibility issues, please contact MEAN WELL.



# HLP-40H series





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.