

GTIN CODE

### HLP-40H series



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

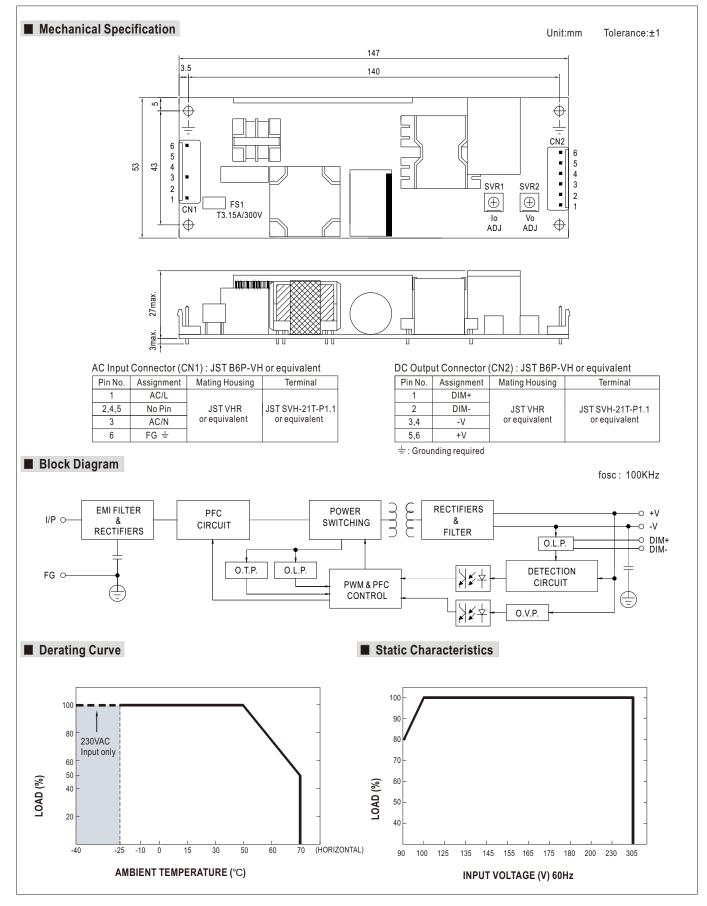


SPECIFIC	ATION		✐	M SELV		or 48V,54V only) ( ex	cept for 48V,54V)			
MODEL		HLP-40H-12	HLP-40H-15	HLP-40H-20	HLP-40H-24	HLP-40H-30	HLP-40H-36	HLP-40H-42	HLP-40H-48	HLP-40H-54
	DC VOLTAGE	12V	15V	20V	24V	30V	36V	42V	48V	54V
OUTPUT	CONSTANT CURRENT REGION Note.4	7.2~12V	9~15V	12 ~ 20V	14.4 ~ 24V	18~30V	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	200mVp-p	200mVp-p	300mVp-p	300mVp-p	300mVp-p
	VOLTAGE ADJ. RANGE	10.8 ~ 13.5V	13.5 ~ 17V	17 ~ 22V	22 ~ 27V	27 ~ 33V	33 ~ 40V	40~46V	44 ~ 53V	49 ~ 58V
	VOLINGE ADD. INHIGE		ed by internal j		22 210	21 331	55 401	101 101	000	43 300
	CURRENT ADJ. RANGE	2 ~ 3.33A	1.6 ~ 2.67A	1.2 ~ 2A	1~1.67A	0.8~1.34A	0.67 - 1.124	0.58 ~ 0.96A	0.5 ~ 0.944	0.45 ~ 0.75
	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%	±0.5%
	LOAD REGULATION	±2.0%	±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 230VAC / 115VAC								
	HOLD UP TIME (Typ.)	16ms/230VAC 16ms/115VAC at full load								
INPUT	VOLTAGE RANGE Note.5	90 ~ 305VAC	127 ~ 431	IVDC						
	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								
	EFFICIENCY (Typ.)	87%	87%	88%	88%	88.5%	89%	89%	89.5%	89.5%
	AC CURRENT (Typ.)	0.43A / 115VA	AC 0.24A	/ 230VAC	0.23A / 277VA	\C				
	INRUSH CURRENT(Typ.)	COLD START 50A(twidth=210µs measured at 50% lpeak) at 230VAC								
	MAX. No. of PSUs on 16A	12 units (circuit breaker of type B) / 20 units (circuit breaker of type C) at 230VAC								
	CIRCUIT BREAKER									
	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
	OVER VOLIAGE	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									
SAFETY & EMC		10 ~ 500Hz, 2G 12min./1cycle, period for 72min. each along X, Y, Z axes								
	SAFETY STANDARDS	UL8750, CSA C22.2 No. 250.0-08 (except for 48V, 54V), BS EN/EN61347-1, BS EN/EN61347-2-13, EAC TP TC 004 approved ; design refer to UL60950-1, BS EN/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 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	3132.4K hrs r		ia SR-332(Bell	core) : 287.9K	hrs min. MII	HDBK-217F (	(25°℃)		
OTHERS	DIMENSION	147*53*27mm						/		
			15.4Kg/1.09CL	IFT						
	PACKING				rotod load and	25°C of ombi-	nt tomporature			
NOTE	<ol> <li>Ripple &amp; noise are measured.</li> <li>Tolerance : includes set up to</li> <li>Please refer to "DRIVING MI</li> <li>Derating may be needed und.</li> <li>Length of set up time is mea</li> <li>The power supply is conside a 360mm*360mm metal plate perform these EMC tests, ple (as available on https://www.</li> <li>Direct connecting to LEDs is</li> <li>To fulfill requirements of the l connected to the mains.</li> </ol>	r mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. d at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. blerance, line regulation and load regulation. ETHODS OF LED MODULE". der low input voltages. Please check the static characteristics for more details. sured at cold first start. Turning ON/OFF the power supply may lead to increase of the set up time. red a component which will be installed into a final equipment. All the EMC tests are been executed by mounting the unit on e with 1mm of thickness. The final equipment must be re-confirmed that it still meets EMC directives. For guidance on how to passe refer to "EMI testing of component power supplies." meanwell.com//Upload/PDF/EMI_statement_en.pdf) suggested, but is not suitable for using additional drivers. atest ErP regulation for lighting fixtures, this LED power supply can only be used behind a switch without permanently For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx File Name:HLP-40H-SPEC 2024-10-1								



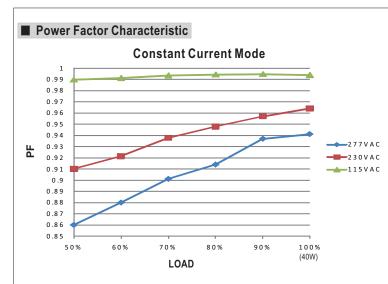


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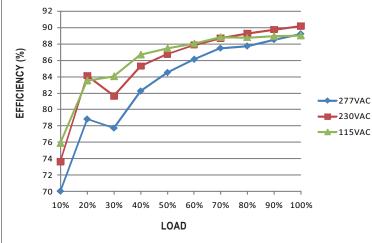


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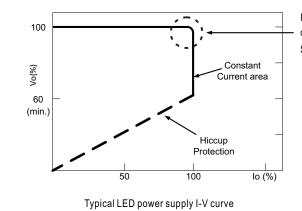
#### EFFICIENCY vs LOAD (48V Model)

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.

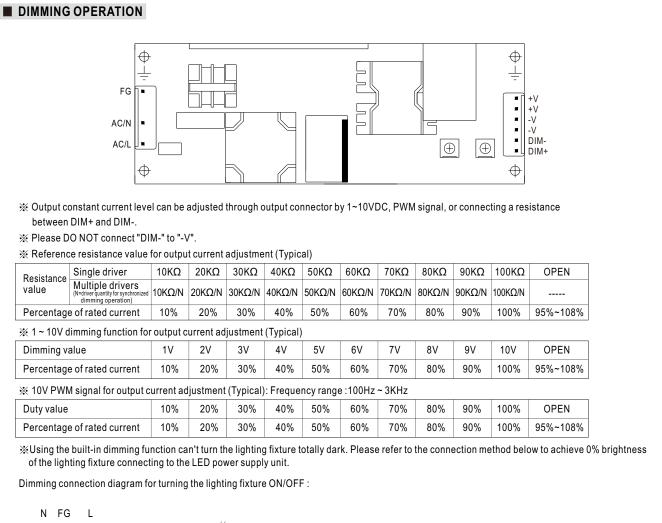


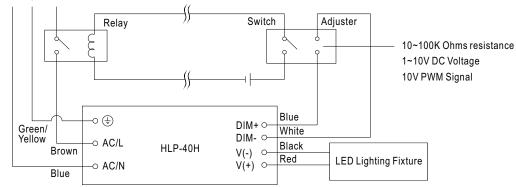
In the constant current region, the highest voltage at the output of the driver depends on the configuration of the end systems.

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.