



VOLTAGE

24V

CURRENT

1.67A

POWER

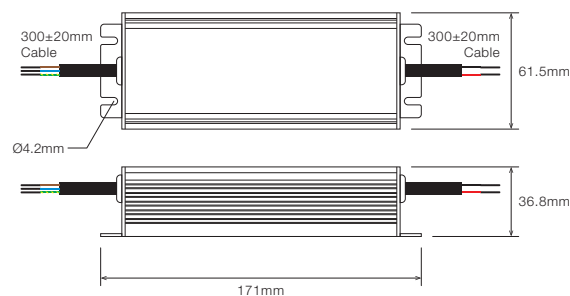
40W

Mean Well 40W Single Output Switching Power Supply

## 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
- OCP point adjustable through output cable or internal potentiometer
- IP67 / IP65 design for indoor or outdoor installations
- Class 2 power unit
- Three in one dimming function (1~10VDC or PWM signal or resistance)
- Suitable for LED lighting and moving sign applications
- Compliance to worldwide safety regulations for lighting
- Suitable for dry / damp / wet locations
- 5 years warranty

## DIMENSIONS



## ■ TECHNICAL SPECIFICATIONS

Model	HLG-40H-12	HLG-40H-15	HLG-40H-20	HLG-40H-24	HLG-40H-30	HLG-40H-36	HLG-40H-42	HLG-40H-48	HLG-40H-54
DC Voltage	12V	15V	20V	24V	30V	36V	42V	48V	54V
Constant Current Region <sup>4</sup>	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	39.96W	40.05W	40W	40.08W	40.2W	40.32W	40.32W	40.32	40.5W
Ripple & Noise (max.) <sup>2</sup>	150m Vp-p	150m Vp-p	150m Vp-p	200m Vp-p	200m Vp-p	200m Vp-p	200m Vp-p	300m Vp-p	300m Vp-p
Voltage Adj. Range <sup>3</sup>	10.8 – 13.5V	13.5 – 17V	17 – 22V	22 – 27V	27 – 33V	33 – 40V	40 – 46V	44 – 53V	49 – 58V
Current Adj. Range	Can be adjusted by internal potentiometer A type only								
	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 – 0.75A
Voltage Tolerance <sup>3</sup>	±2.5%	±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 <sup>8</sup>	500ms, 80ms at full load		230VAC / 115VAC						
Hold Up Time	16ms / 230VAC		16ms / 115VAC at full load						
Voltage Range	90 – 305VAC		127 – 431VDC						
Frequency Range	47 – 63Hz								
Power Factor	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.)	86.5%	86.5%	88%	88%	88.5%	88.5%	88.5%	89.5%	89.5%
AC Current (Typ.)	0.43A / 115VAC		0.24A / 230VAC		0.23A / 277VAC				
Inrush Current (Typ.)	COLD START 50A (twidh=210µs measured at 50% Ipeak) at 230VAC								
Leakage Current	<0.75mA / 277VAC								
Over Current <sup>4</sup>	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								
Over Voltage	15 – 21V	18 – 24V	23 – 30V	28 – 35V	35 – 43V	41 – 49V	48 – 58V	54 – 65V	59 – 68V
Over Temperature	Shut down o/p voltage, re-power on to recover								
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 – 60°C)								
Vibration	10 – 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes								
Safety Standards <sup>7</sup>	UL8750, CSA C22.2 No. 250.0-08 (except for 48V, 54V), EN61347-1, EN61347-2-13 independent, IP65 or IP67, J61347-1, J61347-2-13 approved ; design refer to UL60950-1, TUV EN60950-1, 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, EN61000-3-2 Class C (≥60% load) ; EN61000-3-3								
EMC Immunity	Compliance to EN61000-4-2,3,4,5,6,8,11; EN61547, EN55024, light industry level (surge 4KV), criteria A								
MTBF	336.5K hrs min.		MIL-HDBK-217F (25°C)						
Dimension (LxWxH)	171 x 61.5 x 36.8mm								
Packing	0.73Kg; 20pcs / 15.6Kg / 0.8cu.ft								

<sup>1</sup> All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.

<sup>2</sup> Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1µf & 47µf parallel capacitor.

<sup>3</sup> Tolerance : includes set up tolerance, line regulation and load regulation.

<sup>4</sup> Please refer to "DRIVING METHODS OF LED MODULE" in Meanwell's specification sheet.

<sup>5</sup> Derating may be needed under low input voltages. Please check the static characteristics in Meanwell's specification sheet for more details.

<sup>6</sup> A type only.

<sup>7</sup> Safety and EMC design refer to EN60598-1, CNS15233, GB7000.1, FCC part18.

<sup>8</sup> 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.

<sup>9</sup> 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.

<sup>10</sup> 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.

## ■ ORDERING EXAMPLE

### PWR-HLG40W-24

IP67 rated. Cable for I/O connection

### PWR-HLG40W-24-A

A: IP65 rated. Output voltage and constant current level can be adjusted through internal potentiometer.

### PWR-HLG40W-24-B

B: IP67 rated. Constant current level adjustable through output cable with 1-10VDC or 10V PWM signal or resistance.