



VOLTAGE CURRENT POWER

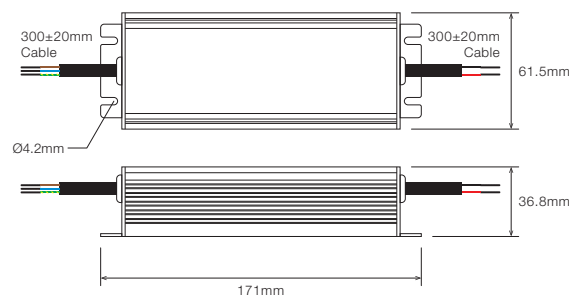
24V 2.50A 60W

Mean Well 60W 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
- 7 years warranty

DIMENSIONS



■ TECHNICAL SPECIFICATIONS

Model		HLG-60H-15	HLG-60H-20	HLG-60H-24	HLG-60H-30	HLG-60H-36	HLG-60H-42	HLG-60H-48	HLG-60H-54
Output	DC Voltage	15V	20V	24V	30V	36V	42V	48V	54V
	Constant Current Region 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.) ²	150mVp-p	150mVp-p	150mVp-p	200mVp-p	200mVp-p	300mVp-p	300mVp-p	300mVp-p
	Voltage Adj. Range ³	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							
		2.4 – 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 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%
Input	Load Regulation	±1.5%	±1.0%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%
	Setup, Rise Time ³	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.)	87.5%	89%	89.5%	90%	90%	90%	90.5%	90.5%
	AC Current (Typ.)	0.64A / 115VAC		0.32A / 230VAC		0.3A / 277VAC			
	Inrush Current (Typ.)	COLD START 55A (twidth=265μs measured at 50% Ipeak) at 230VAC							
Protection	Leakage Current	<0.75mA / 277VAC							
	Over Current ⁴	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	18 – 24V	23 – 30V	28 – 35V	35 – 43V	41 – 49V	48 – 58V	54 – 65V	59 – 68V
	Over Temperature	Protection type : Shut down o/p voltage, re-power on to recover 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 – 60°C)							
	Vibration	10 – 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes							
Safety & EMC	Safety Standards ⁷	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							
Others	MTBF	338Khrs min.			MIL-HDBK-217F (25°C)				
	Dimension (LxWxH)	171 x 61.5 x 36.8mm							
	Packing	0.73Kg; 20pcs / 15.6Kg / 0.8cu.ft							

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

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

³ Tolerance : includes set up tolerance, line regulation and load regulation.

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

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

⁶ A type only.

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

⁸ 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.

⁹ 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.

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.

■ ORDERING EXAMPLE

PWR-HLG60W-24

IP67 rated. Cable for I/O connection

PWR-HLG60W-24-A

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

PWR-HLG60W-24-B

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