



VOLTAGE

24V

CURRENT

4.00A

POWER

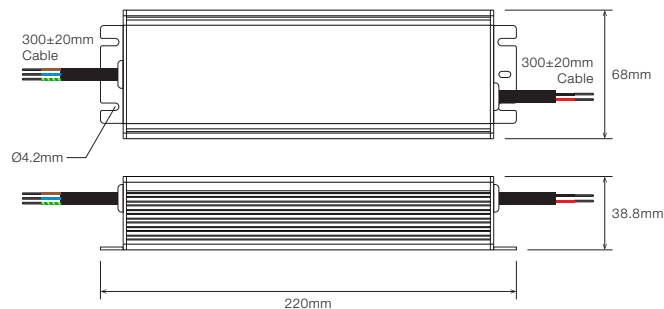
96W

Mean Well 100W Single Output Switching Power Supply

FEATURES

- Universal AC input / Full range (up to 305VAC)
- Built-in active PFC function
- High efficiency up to 93%
- 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 street lighting applications
- Compliance to worldwide safety regulations for lighting
- Suitable for dry / damp / wet locations
- 5 years warranty

DIMENSIONS



## ■ TECHNICAL SPECIFICATIONS

Model	HLG-100H-20	HLG-100H-24	HLG-100H-30	HLG-100H-36	HLG-100H-42	HLG-100H-48	HLG-100H-54	
Output	DC Voltage	20V	24V	30V	36V	42V	48V	54V
	Constant Current Region <sup>4</sup>	10 – 20V	12 – 24V	15 – 30V	18 – 36V	21 – 42V	24 – 48V	27 – 54V
	Rated Current	4.8A	4A	3.2A	2.65A	2.28A	2A	1.77A
	Rated Power	96W	96W	96W	95.4W	95.76W	96W	95.58W
	Ripple & Noise (max.) <sup>2</sup>	150mVp-p	150mVp-p	200mVp-p	200mVp-p	200mVp-p	200mVp-p	200mVp-p
	Voltage Adj. Range <sup>3</sup>	17 – 22V	22 – 27V	27 – 33V	33 – 40V	38 – 46V	43 – 53V	49 – 58V
	Current Adj. Range	Can be adjusted by internal potentiometer A type only						
		3 – 4.8A	2.5 – 4A	2 – 3.2A	1.65 – 2.65A	1.4 – 2.28A	1.25 – 2A	1.1 – 1.77A
	Voltage Tolerance <sup>3</sup>	±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%
Input	Load Regulation	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	
	Setup, Rise Time <sup>5</sup>	1200ms,50ms/115VAC	500ms,50ms/230VAC at full load		B type 1200ms,200ms/115VAC		500ms,200ms/230VAC at 95% load	
	Hold Up Time	16ms at full load	230VAC / 115VAC					
	Voltage Range	90 – 305VAC		127 – 431VDC				
	Frequency Range	47 – 63Hz						
	Power Factor	PF>0.98/115VAC, PF>0.95/230VAC, PF>0.93/277VAC 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.)	93%	93%	93%	93%	93%	93%	93%
	AC Current (Typ.)	1.2A / 115VAC		0.55A / 230VAC		0.5A / 277VAC		
	Inrush Current (Typ.)	COLD START 60A (twidh=415µs measured at 50% Ipeak) at 230VAC						
Protection	Leakage Current	<0.75mA / 277VAC						
	Over Current <sup>4</sup>	95 – 106% Protection type : Constant current limiting, recovers automatically after fault condition is removed						
	Short Circuit	Constant current limiting, recovers automatically after fault condition is removed						
	Over Voltage	23 – 27V	28 – 34V	34 – 39V	41 – 46V	47 – 53V	54 – 63V	59 – 65V
	Over Temperature	Shut down o/p voltage, recovers automatically after temperature goes down						
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, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes						
Safety & EMC	Safety Standards <sup>7</sup>	UL8750, CSA C22.2 No. 250.0-08, EN61347-1, EN61347-2-13 independent IP65 or IP67, J61347-1, J61347-2-13 approved ; design refer to UL60950-1, TUV EN60950-1						
	Withstand Voltage	I/P-O/P:3.75KVAC		I/P-FG:2KVAC		O/P-FG:1.5KVAC		
	Isolation Resistance	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C / 70% RH						
	EMC Emission	Compliance to EN55015, EN55022 (CISPR22) Class B, 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	192.2Khrs min.		MIL-HDBK-217F (25°C)				
	Dimension (LxWxH)	220 x 68 x 38.8mm						
	Packing	1.12Kg; 12pcs / 14.4Kg / 0.74cu.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-HLG100W-24

IP67 rated. Cable for I/O connection

### PWR-HLG100W-24-A

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

### PWR-HLG100W-24-B

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