



VOLTAGE CURRENT POWER

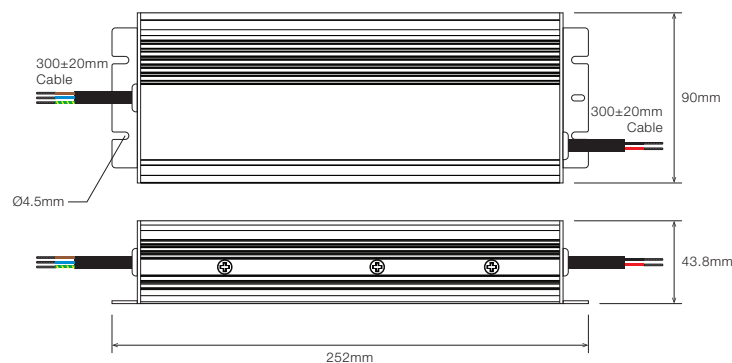
24V 13.3A 320W

Mean Well 320W Single Output Switching Power Supply

FEATURES

- Universal AC input / Full range (up to 305VAC)
- Built-in active PFC function
- High efficiency up to 95%
- 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
- Type HL LED Driver for use in Class I, Division 2 hazardous location luminaires
- 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
- 7 years warranty

DIMENSIONS



■ TECHNICAL SPECIFICATIONS

Model		HLG-320H-12	HLG-320H-15	HLG-320H-20	HLG-320H-24	HLG-320H-30	HLG-320H-36	HLG-320H-42	HLG-320H-48	HLG-320H-54	
Output	DC Voltage	12V	15V	20V	24V	30V	36V	42V	48V	54V	
	Constant Current Region ⁴	6 – 12V	7.5 – 15V	10 – 20V	12 – 24V	15 – 30V	18 – 36V	21 – 42V	24–48V	27–54V	
	Rated Current	22A	19A	15A	13.34A	10.7A	8.9A	7.65A	6.7A	5.95A	
	Rated Power	264W	285W	300W	320.16W	321W	320.4W	321.3W	321.6W	321.3W	
	Ripple & Noise (max.) ²	150mVp-p	150mVp-p	150mVp-p	150mVp-p	200mVp-p	250mVp-p	250mVp-p	250mVp-p	350mVp-p	
	Voltage Adj. Range ³	10.8 – 13.5V	13.5 – 17V	17 – 22V	21 – 26V	26 – 32V	32 – 39V	38 – 45V	43 – 52V	49 – 58V	
	Current Adj. Range	Can be adjusted by internal potentiometer A type only									
		11 – 22A	9.5 – 19A	7.5 – 15A	6.67 – 13.34A	5.35 – 10.7A	4.45 – 8.89A	3.8 – 7.65A	3.35 – 6.7A	2.97 – 5.95A	
	Voltage Tolerance ³	±3.0%	±2.0%	±1.5%	±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%	
Input	Load Regulation	±2.0%	±1.5%	±1.0%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	
	Setup, Rise Time ³	2500ms, 80ms/115VAC			500ms, 80ms/230VAC at full load						
	Hold Up Time	15ms 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>0.94/277VAC at full load (Please refer to "Power Factor Characteristic" curve)									
	Total Harmonic Distortion	THD< 20% when output loading ≥ 50% at 115VAC/230VAC input and output loading ≥ 75% at 277VAC input									
	Efficiency (Typ.) (230VAC)	91%	92.5%	93.5%	94%	94%	94.5%	95%	95%	95%	
	Efficiency (Typ.) (277VAC)	91.5%	93%	94%	94.5%	94.5%	95%	95%	95%	95%	
	AC Current (Typ.)	3.5A / 115VAC			1.65A / 230VAC		1.45A / 277VAC				
Inrush Current (Typ.)	COLD START 70A (twidth=1010μs measured at 50% Ipeak) at 230VAC										
Leakage Current	<0.75mA / 277VAC										
Protection	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	14 – 17V	17.5 – 21V	22.5 – 27V	27 – 33V	33 – 37V	40 – 46V	46.5 – 53V	53.5 – 60V	59 – 65V	
	Over Temperature	Protection type : Shut down and latch off o/p voltage, re-power on to recover									
Environment	Over Temperature	Shut down and latch off 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 – 50°C)									
Safety & EMC	Vibration	10 – 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes									
	Safety Standards ⁷	UL8750, CSA C22.2 No. 250.0-08, EN61347-1, EN61347-2-13 independent, IP65 or IP67 (except for HLG-320H C type), J61347-1, J61347-2-13 (except for HLG-320H C type) approved									
	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 (≥50% load) ; EN61000-3-3									
Others	EMC Immunity	Compliance to EN61000-4-2,3,4,5,6,8,11, EN61547, EN55024, light industry level (surge 4KV), criteria B									
	MTBF	257.1Khrs min.			MIL-HDBK-217F (25°C)						
	Dimension (LxWxH)	252 x 90 x 43.8mm									
	Packing	1.88Kg; 8pcs / 16Kg / 0.92cu.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 and C type only.

⁷ Safety and EMC design refer to EN60598-1, subject 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-HLG320W-24

IP67 rated. Cable for I/O connection

PWR-HLG320W-24-A

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

PWR-HLG320W-24-B

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

PWR-HLG320W-24-C

C: Terminal block for I/O connection. Output voltage and constant current level can be adjusted through internal potentiometer.