



VOLTAGE

24V

CURRENT

7.80A

POWER

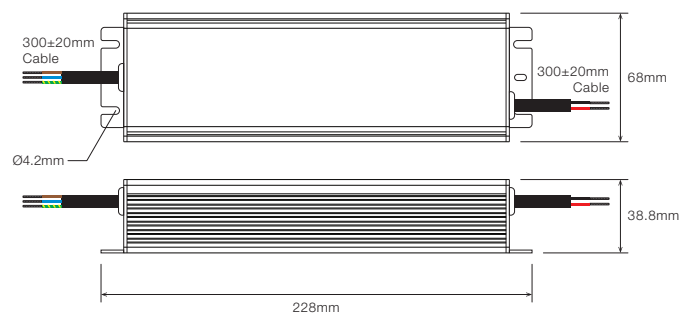
187W

Mean Well 185W Single Output Switching Power Supply

FEATURES

- Universal AC input / Full range (up to 305VAC)
- High efficiency up to 94%
- 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
- 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-185H-12	HLG-185H-15	HLG-185H-20	HLG-185H-24	HLG-185H-30	HLG-185H-36	HLG-185H-42	HLG-185H-48	HLG-185H-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	13A	11.5A	9.3A	7.8A	6.2A	5.2A	4.4A	3.9A	3.45A	
	Rated Power	156W	172W	186W	187.2W	186W	187.2W	184.8W	187.2W	186.3W	
	Ripple & Noise (max.) ²	150mVp-p	150mVp-p	150mVp-p	150mVp-p	200mVp-p	200mVp-p	200mVp-p	200mVp-p	200mVp-p	
	Voltage Adj. Range ³	10.8 – 13.5V	13.5 – 17V	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									
		6.5 – 13A	5.75 – 11.5A	4.65 – 9.3A	3.9 – 7.8A	3.1 – 6.2A	2.6 – 5.2A	2.2 – 4.4A	1.95 – 3.9A	1.72 – 3.45A	
	Voltage Tolerance ³	±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%	
Input	Load Regulation	±2.0%	±1.5%	±1.0%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	
	Setup, Rise Time ⁸	1000ms, 50ms/115VAC		500ms, 50ms/230VAC at full load		B type 1000ms, 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>0.92/277VAC 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.)	91.5%	92%	93%	93.5%	93.5%	93.5%	94%	94%	94%	
	AC	12V	1.8A / 115VAC	0.8A / 230VAC		0.7A / 277VAC					
	Current (Typ.)	15V – 54V	2.1A / 115VAC	0.9A / 230VAC		0.8A / 277VAC					
Protection	Inrush Current (Typ.)	COLD START 65A (twidth=445μs measured at 50% Ipeak) at 230VAC									
	Leakage Current	<0.75mA / 277VAC									
	Over Current ⁴	95 – 108%									
	Short Circuit	Protection type : Constant current limiting, recovers automatically after fault condition is removed									
	Over Voltage	14 – 17V	18 – 21V	23 – 27V	28 – 34V	34 – 38V	41 – 46V	47 – 53V	54 – 63V	59 – 65V	
	Over Temperature	Protection type : Shut down o/p voltage with auto-recovery or re-power on to recovery 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 ⁷	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 (≥50% 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)	228 x 68 x 38.8mm									
	Packing	1.15Kg; 12pcs / 14.8Kg / 0.74cu.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 0.1uf & 47uf 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-HLG185W-24

IP67 rated. Cable for I/O connection

PWR-HLG185W-24-A

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

PWR-HLG185W-24-B

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