



VOLTAGE

24V

CURRENT

0.67A

POWER

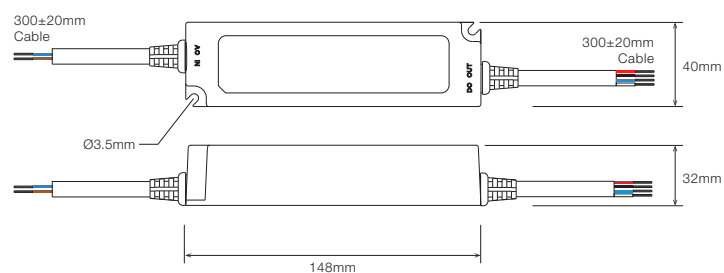
16.1W

Mean Well 16W Single Output LED Power Supply

FEATURES

- Universal AC input / Full range (up to 305VAC)
- High efficiency 88.5%
- Protections: Short circuit / Over current / Over voltage / Over temperature
- Cooling by free air convection
- Built-in active PFC function
- Fully isolated plastic case with IP64 design for indoor or outdoor installations
- Pass LPS
- Class II power unit
- 100% full load burn-in test
- High reliability
- Suitable for LED lighting and moving sign applications
- Suitable for dry / damp locations
- Compliance to worldwide safety regulations for lighting
- 5 years warranty

DIMENSIONS



■ TECHNICAL SPECIFICATIONS

Model	LPF-16D-12	LPF-16D-15	LPF-16D-20	LPF-16D-24	LPF-16D-30	LPF-16D-36	LPF-16D-42	LPF-16D-48	LPF-16D-54	
Output	DC Voltage	12V	15V	20V	24V	30V	36V	42V	48V	54V
	Constant Current Region ⁶	6.6 – 12V	8.25 – 15V	11 – 20V	13.2 – 24V	16.5 – 30V	19.8 – 36V	23.1 – 42V	26 – 48V	29.7 – 54V
	Rated Current	1.34A	1.34A	0.8A	0.67A	0.54A	0.45A	0.39A	0.34A	0.3A
	Rated Power	16.08W	16.05W	16W	16.08W	16.2W	16.2W	16.38W	16.32W	16.2W
	Ripple & Noise (max.) ⁸	150mVp-p	150mVp-p	150mVp-p	150mVp-p	200mVp-p	250mVp-p	250mVp-p	250mVp-p	350mVp-p
	Voltage Tolerance ⁹	±4.0%	±4.0%	±4.0%	±4.0%	±4.0%	±4.0%	±4.0%	±4.0%	±4.0%
	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 ⁷	1500ms, 80ms / 115VAC at full load			500ms, 80ms / 230VAC					
	Hold Up Time	16ms at full load		230VAC / 115VAC						
Input	Voltage Range ⁵	90 – 305VAC		127 – 431VDC						
	Frequency Range	47 – 63Hz								
	Power Factor (typ.)	PF>0.97/115VAC, 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.)	83%	83%	84.5%	84.5%	84.5%	85%	85%	85%	84.5%
	AC Current (Typ.)	0.4A / 115VAC		0.25A / 230VAC		0.2A/277VAC				
	Inrush Current (Typ.)	COLD START 50A(twidth=200µs measured at 50% Ipeak) at 230VAC								
	Max No. of PSUs on 16A Circuit Breaker	14 units (circuit breaker of type B) / 24 units (circuit breaker of type C) at 230VAC								
	Leakage Current	<0.75mA / 240VAC								
	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		15 – 18V	17.5 – 21V	23 – 27V	28 – 35V	34 – 40V	41 – 49V	46 – 54V	54 – 63V	59 – 66V
		Protection type : Shut down and latch off o/p voltage, re-power on to recover								
Over Temperature		Shut down o/p voltage, recovers automatically after temperature goes down								
Environment	Working Temp.	-35 ~ +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, 2G 12min./1cycle, period for 72min. each along X, Y, Z axes								
Safety & EMC	Safety Standards ⁶	UL8750, CSA C22.2 No. 250.0-08, EN61347-1, EN61347-2-13 independent, EN62384, J61347-1, J61347-2-13 approved, IP67 approved ;Design refer to UL60950-1, TUV EN60950-1								
	Withstand Voltage	I/P-O/P:3.75KVAC								
	Isolation Resistance	I/P-O/P:100M Ohms / 500VDC / 25°C / 70% RH								
	EMC Emission	Compliance to EN55015; EN61000-3-2 Class C (>55% 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 A								
	MTBF	418.5Khrs min.		MIL-HDBK-217F (25°C)						
	Dimension (LxWxH)	148 x 40 x 32mm								
Packing	0.36Kg; 40pcs / 15.4Kg / 1.02cu.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 Constant current operation region is within 55% – 100% rated output voltage. This is the suitable operation region for LED related applications, but please reconfirm special electrical requirements for some specific system design

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

⁶ 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.

⁷ 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.

⁸ Direct connecting to LEDs is suggested, but is not suitable for using additional drivers.

⁹ Suitable for indoor use.

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-LPF16D-24

IP64 Rated