



MEAN WELL LPL-18 Series Single Output Switching Power Supply Owner's Manual

[Home](#) » [MEAN WELL](#) » MEAN WELL LPL-18 Series Single Output Switching Power Supply Owner's Manual 



18W Single Output Switching Power Supply
LPL- 18 series



HM GTIN CODE

MW Search: <https://www.meanwell.com/serviceGTIN.aspx>

Contents

- 1 Features:
- 2 SPECIFICATION
- 3 Mechanical Specification
- 4 Documents / Resources
 - 4.1 References

Features:

- 90-132VAC input only

- Fully encapsulated with IP67 level (Note.5)
- Protections: Short circuit/Overload/Over voltage/Over temperature
- Cooling by free air convection
- Class II power unit, no FG
- Pass LPS
- 100% full load burn-in test
- Suitable for LED related fixture or appliance (such as LED Decoration or Advertisement devices)
- High reliability/Low cost
- 2 years warranty



http://www.meanwell.com.cn/Upload/PDF/LED_EN.pdf

□ LPS IP67 FC EAC CE (LVD)

SPECIFICATION

MODEL		LPL-18-12	LPL-18-24	LPL-18-36
OUTPUT	DC VOLTAGE	12V	24V	36V
	RATED CURRENT	1.5A	0.75A	0.5A
	CURRENT RANGE	0 – 1.5A	0 – 0.75A	0 – 0.5A
	RATED POWER	18W	18W	18W
	RIPPLE & NOISE (max.) Not e.2	120mVp-p	150mVp-p	200mVp-p
	VOLTAGE TOLERANCE Note.3	±3.0%		
	LINE REGULATION	±1.0%		
	LOAD REGULATION	±2.0%		
	SETUP, RISE TIME	1500ms, 30ms / 115VAC		
	HOLD UP TIME (Typ.)	20ms/115VAC at full load		
	VOLTAGE RANGE	90 – 132VAC 127 – 186VDC		
	FREQUENCY RANGE	47 – 63Hz		

INPUT	EFFICIENCY(Typ.)	80%	83%	84%
	AC CURRENT	0.5A/115VAC		
	INRUSH CURRENT(Typ.)	COLD START 40A(twidthr:2000 measured at 50% speak) at 115V AC		
	MAX. No. of PSUs on 16A CIRCUIT BREAKER	16 units (circuit breaker of type B) I 27 units (circuit breaker of type C) at 115VAC		
	LEAKAGE CURRENT	0.25mA1 115VAC		
PROTECTION	OVERLOAD	Above 105% rated output power		
		Protection type : Hiccup mode, recovers automatically after fault condition is removed		
	OVER VOLTAGE	13.8- 16.2V	27.6- 32.4V	41.4 – 48.6V
		Protection type : Shut off o/p voltage, clamping by Zener diode		
	OVER TEMPERATURE	Shut down, recovers automatically after temperature goes down		
ENVIRONMENT	WORKING TEMP.	-30- +70°C (Refer to “Derating Curve”)		
	WORKING HUMIDITY	20 – 90% RH non-condensing		
	STORAGE TEMP., HUMIDITY	-40 – +80t , 10 – 95% RH		
	TEMP. COEFFICIENT	±0.03%/t (0 – 50°C)		
	VIBRATION	10 – 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes		
SAFETY & EMC	SAFETY STANDARDS	EAC TP TC 004,IP67 approved; design refer to UL1310 Class 2,TUV EN60950-1, EN61347-2-13, CAN/CSA C22.2 No. 223-M91		
	WITHSTAND VOLTAGE	I/P-O/P:3KVAC		
	ISOLATION RESISTANCE	I/P-O/P:>100M Ohms / 500VDC / 25t/ 70% RH		
	EMC EMISSION	Compliance to EN55022 (CISPR22) Class B, FCC Part 15, EN61000-3-2 Class A, EN61000-3-3, EAC TP TC 020		
	EMC IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11, EN55024, light industry level, EAC TP TC 020		
OTHERS	MTBF	6901.7K hrs min. Telcordia SR-332 (Bellcore) ; 1171.8Khrs min. MIL-HDBK-217F (25°C)		
	DIMENSION	140`30*22(L*W*H)		
	PACKING	0.175Kg; 70pcs113.3Kgs10.71CUFT		

NOTE

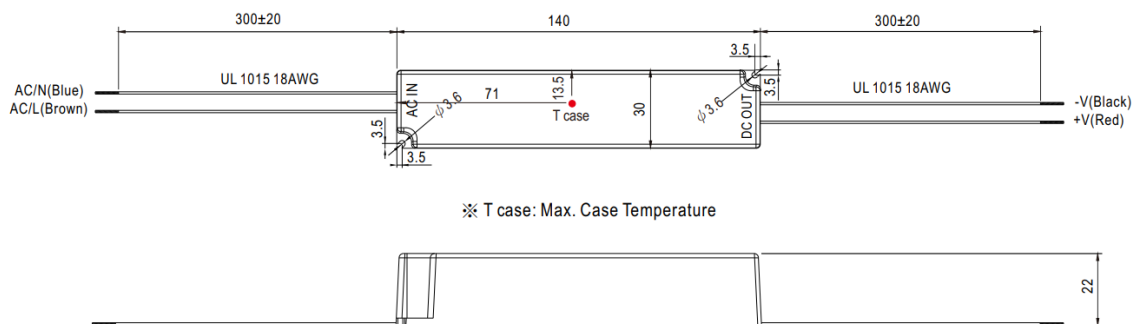
1. All parameters NOT specially mentioned are measured at 115VAC input, rated load and 25°C of ambient temperature.
2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.

3. Tolerance : includes set up tolerance, line regulation and load regulation.
4. 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 requalify EMC Directive on the complete installation again. (as available on https://www.meanwell.com//Upload/PDF/EMI_statement_en.pdf)
5. Suitable for indoor use or outdoor use without direct sunlight exposure.
6. The ambient temperature derating of 3.5 /1000m with fanless models and of 5 /1000m with fan models for operating altitude higher than 2000m(6500ft).

✘ Product Liability Disclaimer For detailed information please refer to

<https://www.meanwell.com/serviceDisclaimer.aspx>

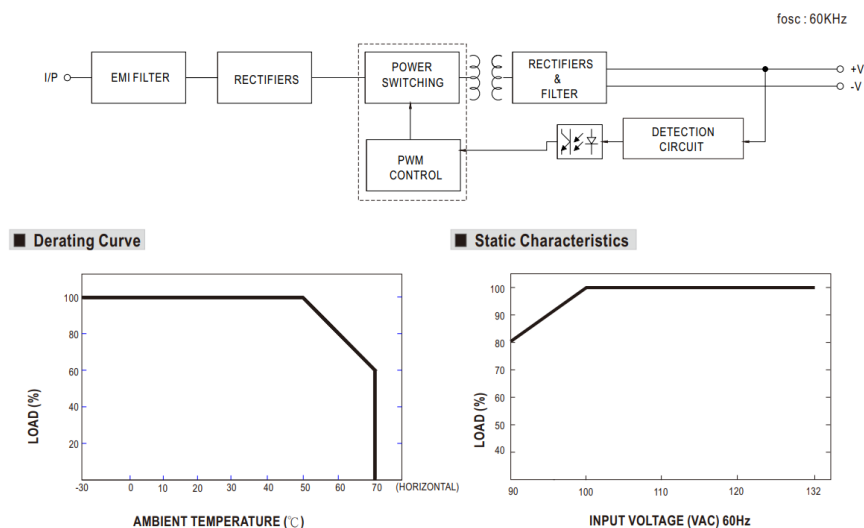
Mechanical Specification



Recommend Mounting Direction



Block Diagram





File Name: LPL-18-SPEC 2024-02-19

Documents / Resources



[MEAN WELL LPL-18 Series Single Output Switching Power Supply](#) [pdf] Owner's Manual LPL-18-12, LPL-18-24, LPL-18-36, LPL-18 Series Single Output Switching Power Supply, LPL-18 Series, Single Output Switching Power Supply, Switching Power Supply, Power Supply

References

- [User Manual](#)

[Manuals+](#), [Privacy Policy](#)

This website is an independent publication and is neither affiliated with nor endorsed by any of the trademark owners. The "Bluetooth®" word mark and logos are registered trademarks owned by Bluetooth SIG, Inc. The "Wi-Fi®" word mark and logos are registered trademarks owned by the Wi-Fi Alliance. Any use of these marks on this website does not imply any affiliation with or endorsement.