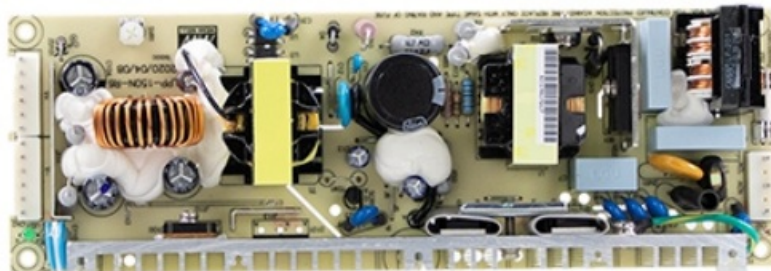


MEAN WELL LPP-150 series Single Output with PFC Function User Guide

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150W Single Output with PFC Function
LPP-150 series



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GTIN CODE

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

Features:

- Universal AC input / Full range
- Built-in active PFC function, PF>0.96
- Protections: Short circuit / Overload / Over voltage
- Protections:Over temperature(option)
- Cooling by free air convection
- 100% full load burn-in test
- Fixed switching frequency at PFC:67KHz PWM:134KHz
- 3 years warranty



https://www.meanwell.com/Upload/PDF/PCB_EN.pdf

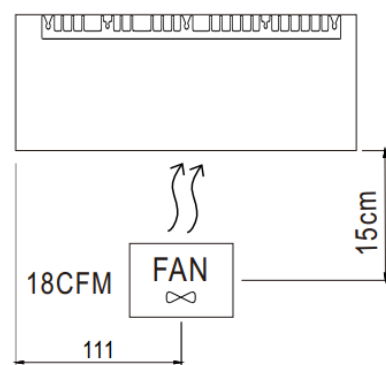
SPECIFICATION


MODEL		LPP-1 50-3.3	LPP-1 50-5	LPP-1 50-7.5	LPP-1 50-12	LPP-1 50-13.5	LPP-1 50-15	LPP-1 50-24	LPP-1 50-27	LPP-1 50-48
	DC VOLTAGE	3.3V	5V	7.5V	12V	13.5V	15V	24V	27V	48V
	RATED CURRENT	30A	30A	20A	12.5A	11.2A	10A	6.3A	5.6A	3.2A

OUTPUT	CURRENT RANGE	0 ~ 30 A	0 ~ 30 A	0 ~ 20 A	0 ~ 12.5A	0 ~ 11.2A	0 ~ 10 A	0 ~ 6.3 A	0 ~ 5.6 A	0 ~ 3.2 A
	RATED POWER	99W	150W	150W	150W	151.2 W	150W	151.2 W	151.2 W	153.6 W
	RIPPLE & NOISE (max.) Note.2	100mV p-p	100mV p-p	100mV p-p	100mV p-p	100mV p-p	100mV p-p	150mV p-p	150mV p-p	250mV p-p
	VOLTAGE ADJ. RANGE	3.14 ~ 3.63V	4.75 ~ 5.5V	7.13 ~ 8.25V	11.4 ~ 13.2V	12.8 ~ 14.9V	14.3 ~ 16.5V	22.8 ~ 26.4V	25.7 ~ 29.7V	45.6 ~ 52.8V
	VOLTAGE TOLERANCE Note.3	±2.0%	±2.0%	±2.0%	±2.0%	±2.0%	±2.0%	±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%
	LOAD REGULATION	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±0.5%	±0.5%	±0.5%
	SETUP, RISE TIME	600ms, 30ms at full load								
	HOLD UP TIME (Typ.)	30ms at full load								
INPUT	VOLTAGE RANGE	85 ~ 264VAC 120 ~ 370VDC								
	FREQUENCY RANGE	47 ~ 63Hz								
	POWER FACTOR	PF≥0.96/230VAC PF≥0.97/115VAC at full load								
	EFFICIENCY(Typ.)	70%	76%	80%	82%	83%	83%	85%	85%	85%
	AC CURRENT (Typ.)	2.5A/115VAC 1.2A/230VAC								
	INRUSH CURRENT (Typ.)	COLD START 55A/230VAC								
	LEAKAGE CURRENT	<3.5mA / 240VAC								
PROTECTION	OVERLOAD	105 ~ 150% rated output power								
		Protection type : Constant current limiting, recovers automatically after fault condition is removed								
	OVER VOLTAGE	3.63 ~ 4.45V	5.5 ~ 6.75V	8.25 ~ 10.1V	13.2 ~ 16.2V	14.85 ~ 18.2V	16.5~ 20.25V	26.4 ~ 32.4V	29.7 ~ 36.5V	52.8 ~ 64.8V
		Protection type : Shut down o/p voltage, re-power on to recover								
ENVIRONMENTAL	WORKING TEMP.	-10 ~ +60°C with cooling FAN (Refer to “Derating Curve”)								
	WORKING HUMIDITY	20 ~ 90% RH non-condensing								

RON MENT	STORAGE TEMP. , HUMIDITY	-20 ~ +85°C, 10 ~ 95% RH
	TEMP. COEFFICI ENT	±0.05%/°C (0 ~ 50°C)
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes
SAFE TY & EMC (Note 4)	SAFETY STAND ARDS	UL62368-1, TUV BS EN/EN62368-1, EAC TP TC 004 approved
	WITHSTAND VO LTAGE	I/P-O/P:3KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC
	ISOLATION RESI STANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C/ 70% RH
	EMC EMISSION	Compliance to BS EN/EN55032 (CISPR32) Class B, BS EN/EN61000-3-2,-3, EA C TP TC 020
	EMC IMMUNITY	Compliance to BS EN/EN61000-4-2,3,4,5,6,8,11, BS EN/EN55035, light industry l evel, EAC TP TC 020
OTHE RS	MTBF	2635.3K hrs min. Telcordia SR-332 (Bellcore) ; 292.7K hrs min. MIL-HDBK-2 17F (25°C)
	DIMENSION	222*75*41mm (L*W*H)
	PACKING	0.62Kg; 24pcs/16.6Kg/1.63CUFT
NOTE	<p>1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.</p> <p>2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.</p> <p>3. Tolerance : includes set up tolerance, line regulation and load regulation.</p> <p>4. The power supply is considered a component which will be installed into a final equipment. All the EMC tests are been executed by mounting the unit on a 360mm*360mm metal plate with 1mm of thickness. The final equipment must be re-confirmed that it still meets EMC directives. For guidance on how to perform these EMC tests, please refer to "EMI testing of component power supplies." (as available on http://www.meanwell.com)</p> <p>5. The ambient temperature derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500ft).</p> <p>※ Product Liability Disclaimer For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx</p>	

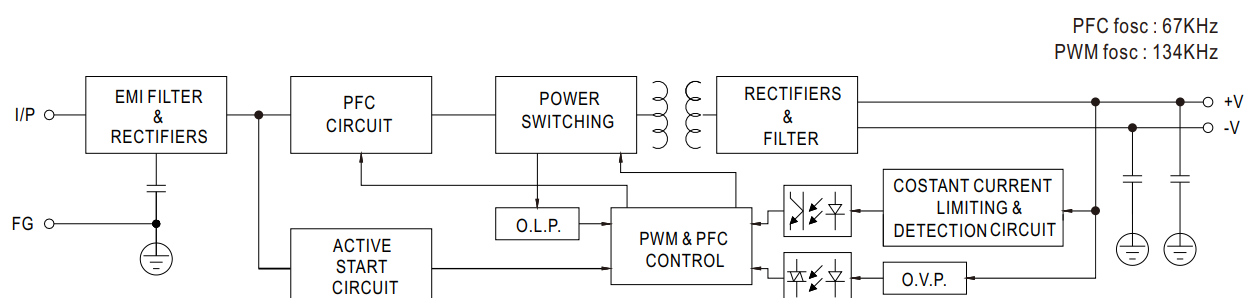
Mechanical Specification



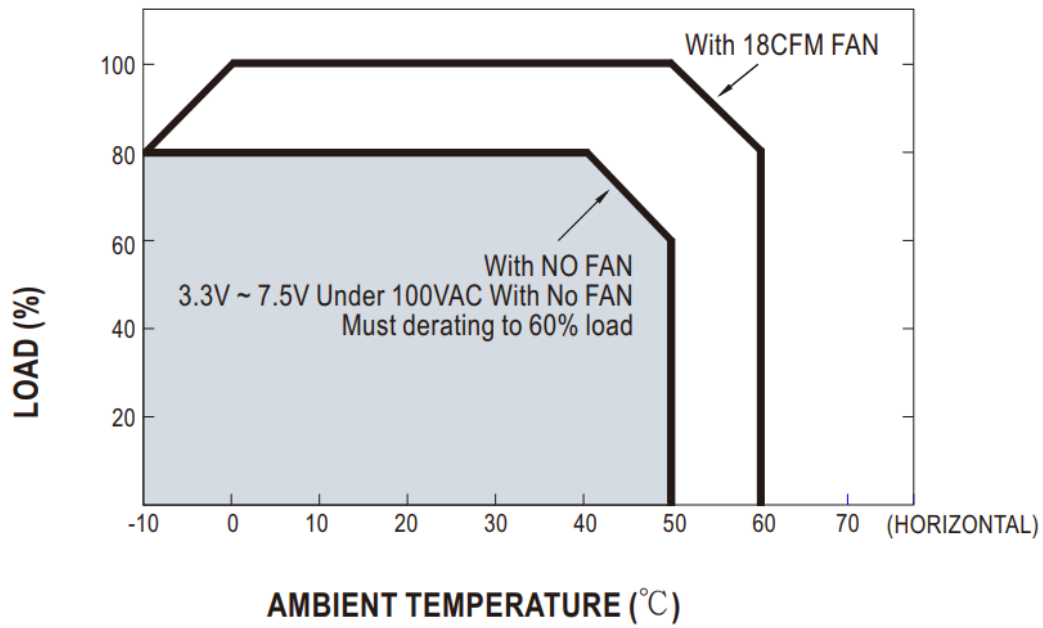
Pin No.	Assignment	Mating Housing	Terminal
1	AC/L	JST VHR or equivalent	JST SVH-21T-P1.1 or equivalent
2,4	No Pin		
3	AC/N		
5	FG 		

Pin No.	Assignment	Mating Housing	Terminal
1~6	-V	JST VHR or equivalent	JST SVH-21T-P1.1 or equivalent
7~12	+V		

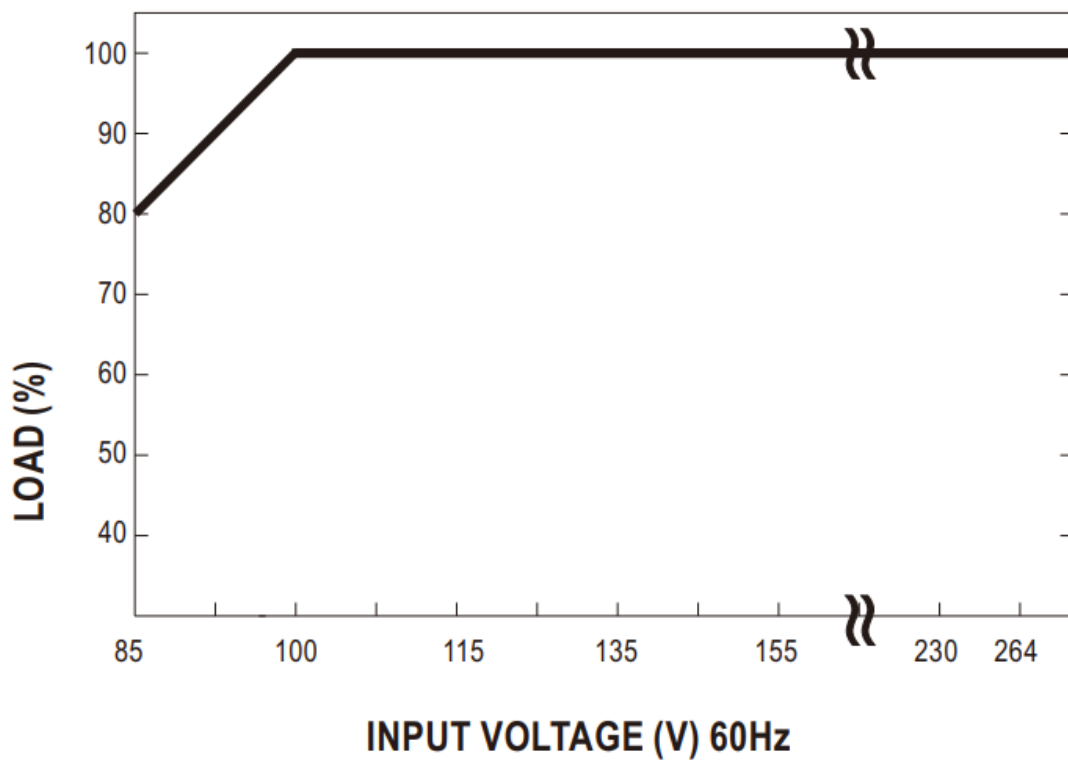
Block Diagram



Derating Curve



Output Derating VS Input Voltage



File Name: LPP-150-SPEC 2022-09-20



UL62368-1



BS EN/EN62368-1




IEC62368-1



TPTC004



Documents / Resources

	<p>MEAN WELL LPP-150 series Single Output with PFC Function [pdf] User Guide LPP-150-3.3, LPP-150-5, LPP-150-7.5, LPP-150-12, LPP-150-13.5, LPP-150-15, LPP-150-24, LP P-150-27, LPP-150-48, LPP-150 series Single Output with PFC Function, LPP-150, series Single Output with PFC Function, Output with PFC Function, PFC Function, Function</p>
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References

- [△ TÜV Rheinland - Home | US | TÜV Rheinland](#)
- [MEAN WELL Switching Power Supply Manufacturer](#)
- [Product Liability Disclaimer-MEAN WELL Switching Power Supply Manufacturer](#)
- [User Manual](#)

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