



MEAN WELL LPV-100 100W Single Output Switching Power Supply User Manual

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MEAN WELL LPV-100 100W Single Output Switching Power Supply



Features

- Constant voltage design
- Universal AC input/ Full range
- Fully encapsulated with IP67 level (Note.7)
- Withstand 300VAC surge input for 5 seconds
- **Protections:** Short circuit/ Overload/Over voltage
- Fully isolated plastic case
- Cooling by free air convection
- 100% full load burn-in test
- Low cost, high reliability
- Suitable for LED-related fixtures or appliances (such as LED Decoration or Advertisement devices) (Note.11)
- 2 years warranty

GTIN CODE

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

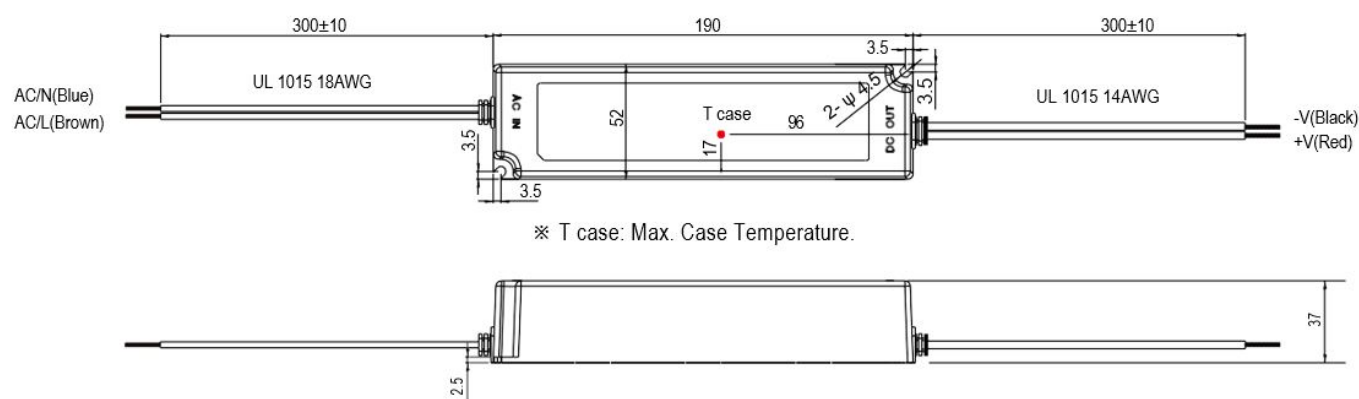
SPECIFICATION

MODEL		LPV-100-5	LPV-100-12	LPV-100-15	LPV-100-24	LPV-100-36	LPV-100-48
	DC VOLTAGE	5V	12V	15V	24V	36V	48V
	RATED CURRENT	12A	8.5A	6.7A	4.2A	2.8A	2.1A
	CURRENT RANGE	0 ~ 12A	0 ~ 8.5A	0 ~ 6.7A	0 ~ 4.2A	0 ~ 2.8A	0 ~ 2.1A

OUT PUT	RATED POW ER		60W	102W	100.5W	100.8W	100.8W	100.8W
	RIPPLE & NO ISE (max.) Note.2		80mVp- p	120mVp- p	120mVp-p	150mVp-p	150mVp- p	150mVp- p
	VOLTAGE TO LERANCE N ote.3		±8.0%	±5.0%				
	LINE REGUL ATION		±1.0%					
	LOAD REGU LATION		±6.0%	±2.0%				
	SETUP, RISE TI ME	N ot e. 6	2000ms, 25ms / 230VAC 2000ms, 25ms / 115VAC					
	HOLD UP TI ME (Typ.)		50ms/230VAC 14ms/115VAC at full load					
INP UT	VOLTAG E RANG E	N ot e. 4	90 ~ 264VAC 127 ~ 370VDC					
	FREQUENCY RANGE		47 ~ 63Hz					
	EFFICIENCY (Typ.)		80%	85%	87%	88%	88%	89%
	AC CURREN T		2.2A/115VAC 1.2A/230VAC					
	INRUSH CUR RENT(Typ.)		COLD START 75A(twidth=700µs measured at 50% Ipeak) at 230VAC					
	MAX. No. of PSUs on 16A CIRCUIT BR EAKER		2 units (circuit breaker of type B) / 3 units (circuit breaker of type C) at 230VAC					
	LEAKAGE C URRENT		0.25mA / 240VAC					
PRO TEC TION	OVERLOAD		110 ~ 150% rated output power					
			Protection type: Hiccup mode, recovers automatically after the fault condition is remove d					
	OVERVOLTA GE		5.75 ~ 6. 75V	13.8 ~ 1 6.2V	17.25 ~ 20.25V	27.6 ~ 32.4V	41.4 ~ 4 8.6V	55.2 ~ 6 4.8V
Protection type: Shut down o/p voltage, re-power on to recover								
	WORKING T EMP.		-25 ~ +70°C (Refer to “Derating Curve”)					

ENVIRONMENT	WORKING HUMIDITY	20 ~ 90% RH non-condensing			
	STORAGE TEMP., HUMIDITY	-40 ~ +80°C, 10 ~ 95% RH			
	TEMP. COEFFICIENT	±0.03%/°C (0 ~ 50°C)			
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes			
SAFETY & EMC	SAFETY STANDARDS	UL8750,CSA C22.2 No 250.13-12,UL879,CSA C22.2 No.207-M89,BIS IS15885(for LPV-100-12,LPV-100-24 only), EAC TP TC 004,IP67, IEC62368-1 , BS EN/EN62368-1 approved			
	WITHSTAND VOLTAGE	I/P-O/P:3KVAC			
	ISOLATION RESISTANCE	I/P-O/P:>100M Ohms / 500VDC / 25°C/ 70% RH			
	EMC EMISSION	Compliance to BS EN/EN55032 (CISPR32) Class B, BS EN/EN61000-3-2 Class A(≤80 % load), BS EN/EN61000-3-3, EAC TP TC 020			
	EMC IMMUNITY	Compliance to BS EN/EN61000-4-2,3,4,5,6,8,11; BS EN/EN55035, light industry level, EAC TP TC 020			
OTHERS	MTBF	4497.1K hrs min. Telcordia SR-332 (Bellcore) ;	681.6Khrs min.	MIL-HDBK-217F (25°C)	
	DIMENSION	190*52*37mm (L*W*H)			
	PACKING	0.63Kg;20pcs/13.6Kg/0.55CUFT			
NOTE	<p>1. All parameters NOT specially mentioned are measured at 230VAC input, rated load, and 25C 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. Derating may be needed under low input voltage. Please check the static characteristics for more details.</p> <p>5. The power supply is considered as a component that will be operated in combination with the 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.</p> <p>6. Length of set up time is measured at first cold start. Tuning ON/OFF the power supply may lead to an increase in the setup time.</p> <p>7. Suitable for indoor use or outdoor use without direct sunlight exposure.</p> <p>8. The ambient temperature derating of 3.5 C/1000m with fanless models and of 5 C/1000m with fan models for operating altitudes higher than 2000m(6500ft)</p> <p>9. Products sourced from the Americas regions may not have the TUVBIS/CCC logo. Please contact your MEAN WELL sales for more information.</p> <p>10. For any application note and IP waterproof function installation caution, please refer to our user manual before using.</p> <p>https://www.meanwell.com/Upload/PDF/LED_EN.pdf</p> <p>11. This product is not intended for LED lighting luminaire applications in the EU. (In the EU the LPFNPF/XLG series are recommended.)</p> <p>product Liability Disclaimer: For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx</p>				

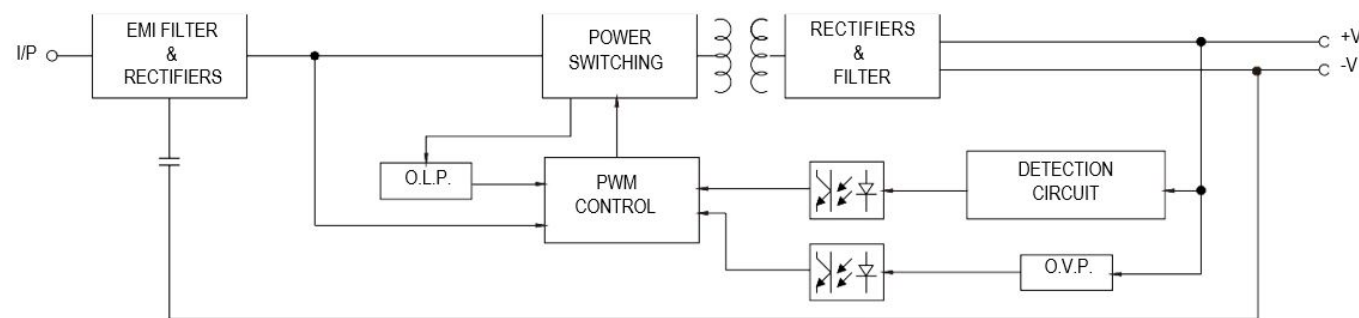
Mechanical Specification



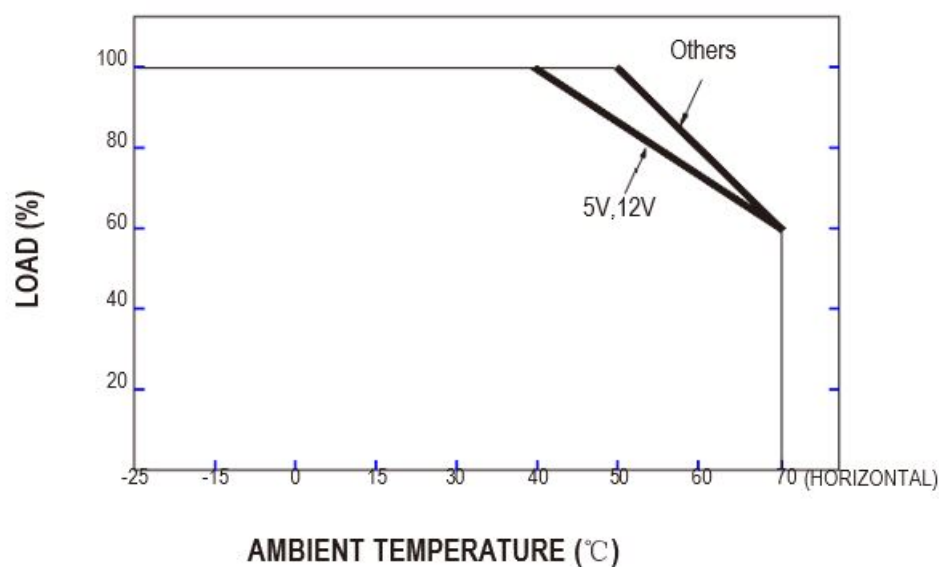
Recommend Mounting



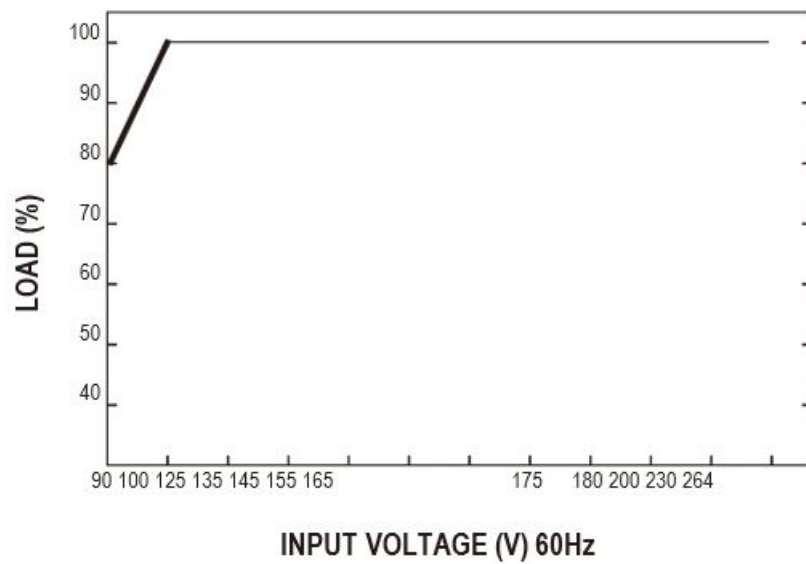
Block Diagram



Derating Curve



Static Characteristics



Documents / Resources



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LPV-100, 100W Single Output Switching Power Supply, Output Switching Power Supply,
Switching Power Supply, LPV-100, Power Supply

References

- [MEAN WELL Product Liability Disclaimer-MEAN WELL Switching Power Supply Manufacturer](#)