



MEAN WELL LPV-100 Series Single Output Switching Power Supply Owner's Manual

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100W Single Output Switching Power Supply
LPV- 100 series



User's Manual



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GTIN CODE

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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 fixture or appliance (such as LED Decoration or Advertisement devices) (**Note.** 11)
- 2 years warranty

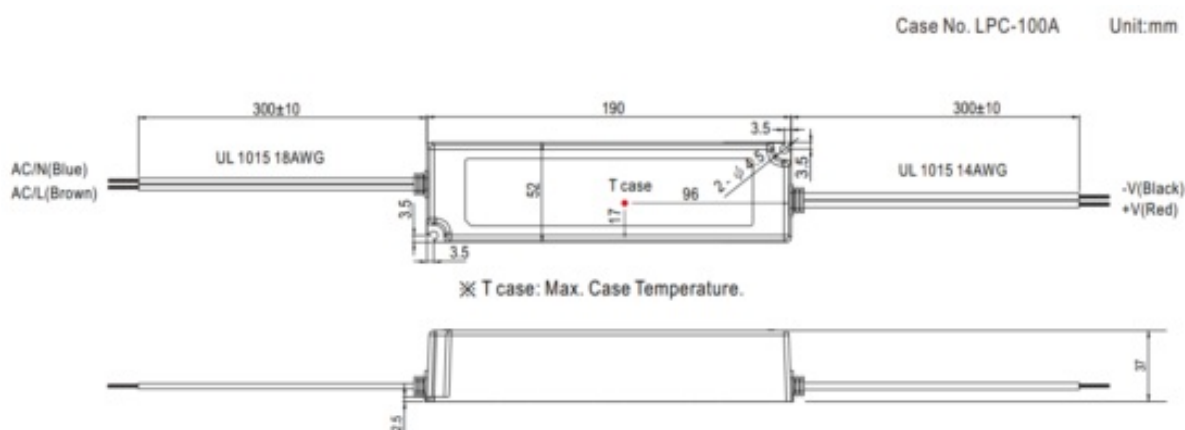
SPECIFICATION

MODEL		LPIP1065	LPW100.12	LPW100.15	LPV-100.24	LPV-100.36	LPIP100.48
OUTP UT	DC VOLTAGE	5V	12V	15V	24V	36V	48V
	RATED CURREN T	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
	RATED POWER	60W	102W	100.5W	100.8W	100.8W	100.8W
	RIPPLE & NOISE (max.) Note.2	80mVp-p	120mVp-p	120mVp-p	150mVp-p	150mVp-p	150mVp-p
	VOLTAGE TOLER ANCE Note.3	±8.0%	±5.0%				
	LINE REGULATI ON	±1.0%					
	LOAD REGULATI ON	±6.0%	±2.0%				
	SETUP, RISE TI ME Nate	2000ms, 25ms /230VAC 2000ms, 25ms /115VAC					

	HOLD UP TIME (Typ.)	50ms/230VAC 14ms/115VAC at full load				
INPUT	VOLTAGE RANGE	90 – 264VAC 127 – 370VDC				
	FREQUENCY RANGE	47 – 63Hz				
	EFFICIENCY (Typ.)	80%	185%	187%	188%	189%
	AC CURRENT	2.2A/115VAC 1.2A/230VAC				
	INRUSH CURRENT(Typ.)	COLD START 75A(twiddht700ps measured at 50% Ipeak) at 230VAC				
	MAX. No. of PSUs on 16A CIRCUIT BREAKER	2 units (circuit breaker of type B) / 3 units (circuit breaker of type C) at 230VAC				
	LEAKAGE CURRENT	0.25mA/ 240VAC				
PROTECTION	OVERLOAD	110 – 150% rated output power				
		Protection type : Hiccup mode, recovers automatically after fault condition is removed				
	OVER VOLTAGE	5.75 – 6.75 V	1 13.8 – 16.2V	1 17.25 – 20.25V	1 27.6 – 32.4V	1 41.4 – 48.6V
		Protection type : Shutdown gip vdtage, re-power on to recover				
ENVIRONMENT	WORKING TEMP.	-25 – +70 C (Refer to “Derating Curve”)				
	WORKING HUMIDITY	20- – 90% RH non-condensing				
	STORAGE TEMP., HUMIDITY	-40 – +80 C, 10 – 95% RH				
	TEMP. COEFFICIENT	±0.03%/tC (0 – 50°C)				
	VIBRATION	10 – 500Hz, 2G 10min/fcyde, period for 60min. each Song 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(Note12), EAC TP TC 004, IP67, IEC62368-1 , BS EN/EN62368-1 approved				
	WITHSTAND VOLTAGE	I/P-0/P:3KVAC				
	ISOLATION RESISTANCE	I/P-0/P:>100M Ohms /500VDC / 25C/ 70% RH				
	EMC EMISSION	Compliance to BS EN/EN55032 (CISPR32) Class B, BS EN/EN61030-3-2 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 mi. Teloordia SR-332 (Bellcore); 681.6Khrs min. MI L-H DB K-217F (25C)
	DIMENSION	190'52'37mm (L'W'H)
	PACKING	0.63Kg;20pcs/13.6Kg/0.55CUFT
NOTE	<p>1.All parameters NOT specialty mentioned are measured at 230VAC input, rated load and 25 (2 of ambient temperature.</p> <p>2.Ripple & noise are measured at 20MHz of bandwidth by using a 12' twisted par-wire terminated with a 0.1 of & 47uf parallel capacitor.</p> <p>3.Tolerance : includes set up tolerance, line regulation and bad regulation.</p> <p>4.Denting 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 timid 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. (as available on https://www.meanwell.com/Upload/PDF/EMI_statement_en.pdf)</p> <p>6.Length of set up time is measured at first cold start. Turning ON/OFF the power supply may lead to increase of the set up time.</p> <p>7.Suitable for indoor use or outdoor use without direct sunlight exposure.</p> <p>8.The ambient temperature denting of 351C/1000m with fanless models and of 5'C/1000m with fan models for operating altitude higher than 2000m(6600ft).</p> <p>9.Products sourced from the Americas regions may not have the TUV/B1S/CCC logo. Please contact your MEAN WELL sales for more information.</p> <p>10.For any application note and IP water proof function installation caution, please refer our user manual before using. 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 LPF/NP F/XLG series are recommended.)</p> <p>12.R-41027766 (GZ factory) only for 12V,24V / R-62002178 (ID factory) for 5V-48V</p> <p>※ Product Liability Disclaimer : For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx</p>	

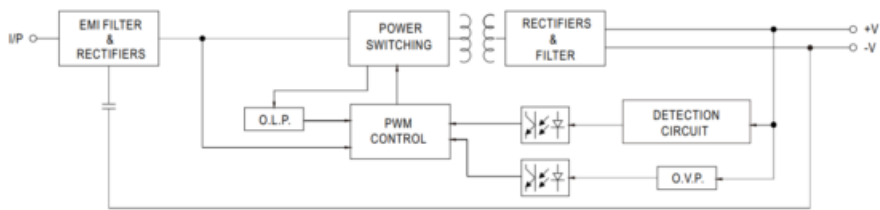
• Mechanical Specification



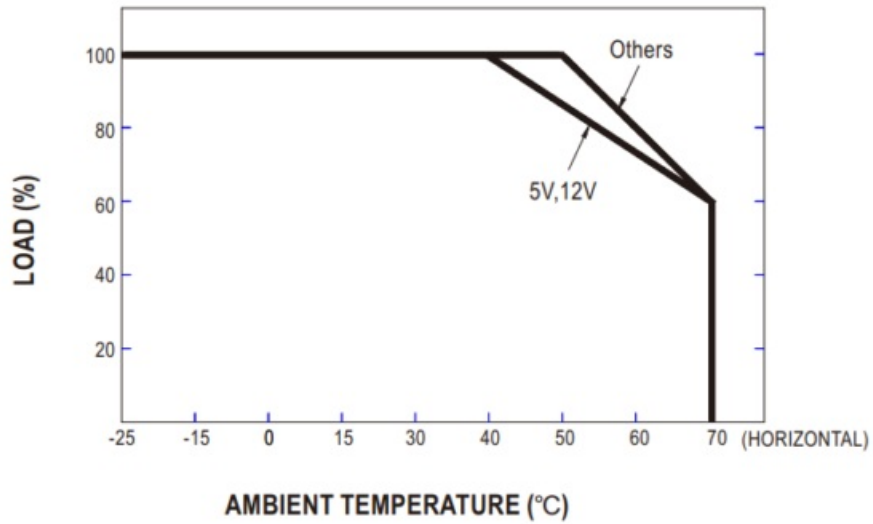
• Recommend Mounting Direction



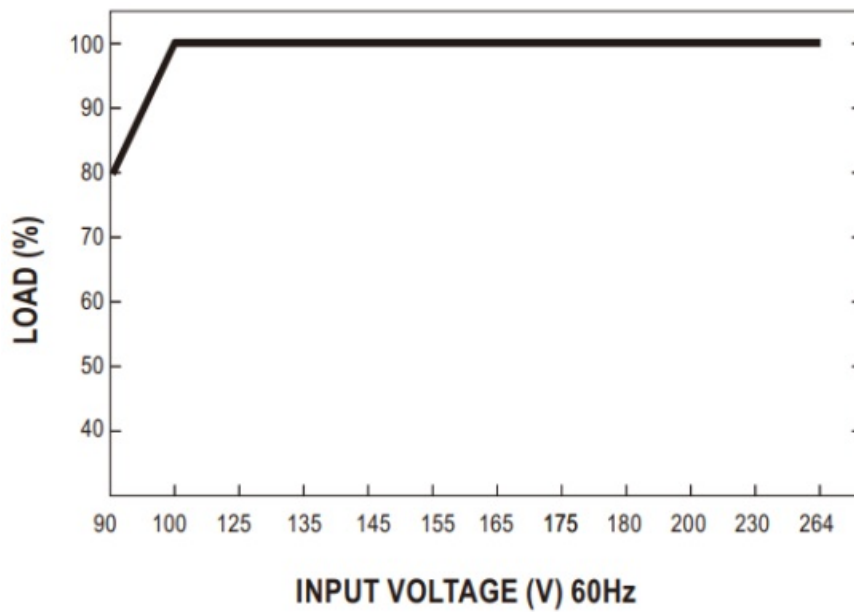
• Block Diagram



- Derating Curve



- Static Characteristics



Documents / Resources



[MEAN WELL LPV-100 Series Single Output Switching Power Supply](#) [pdf] Owner's Manual LPV-100-5, LPV-100-12, LPV-100-15, LPV-100-24, LPV-100-36, LPV-100-48, LPV-100 Series Single Output Switching Power Supply, LPV-100 Series, Single Output Switching Power Supply, Output Switching Power Supply, Switching Power Supply, Power Supply, Supply

References

- [User Manual](#)

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