



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

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



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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

#### User's Manual



#### SPECIFICATION



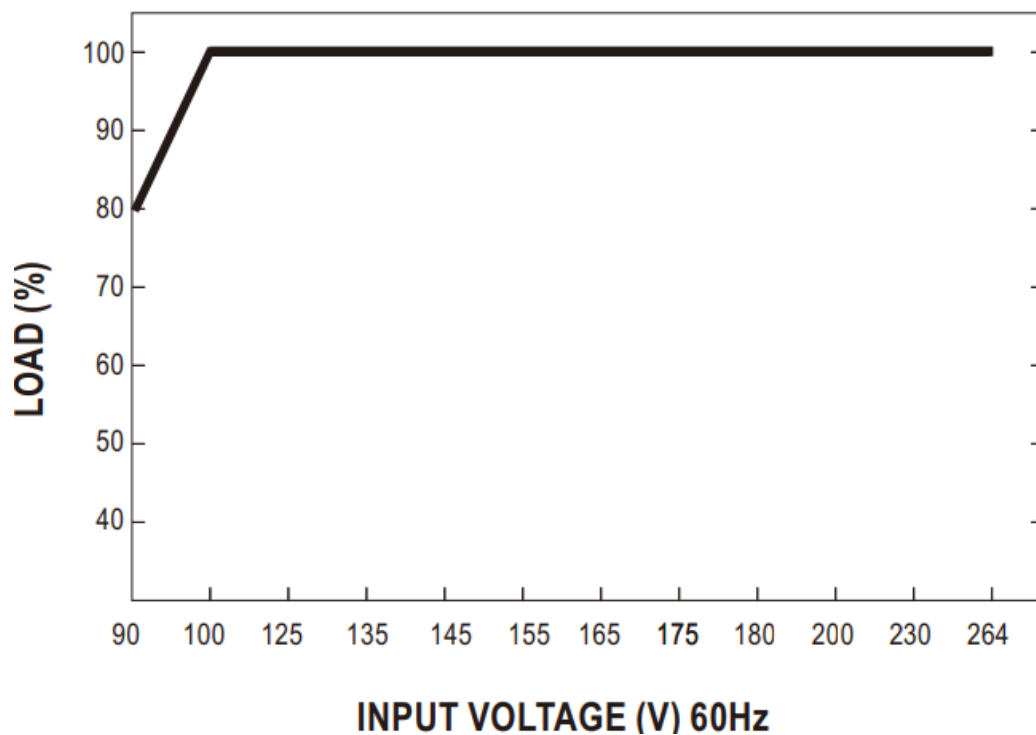
MODEL		LPV-100-5	LPV-100-12	LPV-100-15	LPV-100-24	LPV-100-36	LPV-100-48
O U T P U T	DC VOLTAGE	5V	12V	15V	24V	36V	48V
	RATED CURRENT	12A	8.5A	6.7A	4.2A	2.8A	2.1A
	CURRENT RANGE	0 ~ 12A	0 ~ 8.5A	0 ~ 6.7A	0 ~ 4.2A	0 ~ 2.8A	0 ~ 2.1A
	RATED POWER	60W	102W	100.5W	100.8W	100.8W	100.8W
	RIPPLE & NOISE (max.) Note.2	80mVp-p	120mVp-p	120mVp-p	150mVp-p	150mVp-p	150mVp-p
	VOLTAGE TOLERANCE Note.3	±8.0%	±5.0%				
	LINE REGULATION	±1.0%					
	LOAD REGULATION	±6.0%	±2.0%				

	SETUP, RISE TIME	Note. 6	2000ms, 25ms / 230VAC 2000ms, 25ms / 115VAC					
	HOLD UP TIME (Typ.)		50ms/230VAC 14ms/115VAC at full load					
I N P U T	VOLTAGE RANGE	Note. 4	90 ~ 264VAC 127 ~ 370VDC					
	FREQUENCY RANGE		47 ~ 63Hz					
	EFFICIENCY (Typ.)		80%	85%	87%	88%	88%	89%
	AC CURRENT		2.2A/115VAC 1.2A/230VAC					
	INRUSH CURRENT(Typ.)		COLD START 75A(twidth=700µs 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					
P R O T E C T I O N	OVERLOAD		110 ~ 150% rated output power					
			Protection type : Hiccup mode, recovers automatically after fault condition is removed					
	OVER VOLTAGE		5.75 ~ 6.75V	13.8 ~ 16.2V	17.25 ~ 20.25V	27.6 ~ 32.4V	41.4 ~ 48.6V	55.2 ~ 64.8V
			Protection type : Shut down o/p voltage, re-power on to recover					
E N V I R O N M E N T	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%/°C (0 ~ 50°C)					
	VIBRATION		10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes					
S A F E T Y & E M	SAFETY STANDARD S		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-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					

C	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	<div>1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.</div> <div>2. Ripple &amp; noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf &amp; 47uf parallel capacitor.</div> <div>3. Tolerance : includes set up tolerance, line regulation and load regulation.</div> <div>4. Derating may be needed under low input voltage. Please check the static characteristics for more details.</div> <div>5. 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.(as available on <a href="https://www.meanwell.com/Upload/PDF/EMI_statement_en.pdf">https://www.meanwell.com/Upload/PDF/EMI_statement_en.pdf</a>)</div> <div>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</div> <div>7. Suitable for indoor use or outdoor use without direct sunlight exposure</div> <div>8. The ambient temperature derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan mode Is for operating altitude higher than 2000m(6500ft).</div> <div>9. Products sourced from the Americas regions may not have the TUV/BIS/CCC logo. Please contact your MEAN WELL sales for more information.</div> <div>10. For any application note and IP water proof function installation caution, please refer our user manual before using. <a href="https://www.meanwell.com/Upload/PDF/LED_EN.pdf">https://www.meanwell.com/Upload/PDF/LED_EN.pdf</a></div> <div>11. This product is not intended for LED lighting luminaire applications in the EU.(In the EU the LPF/NPF/XLG series are recommended.)</div> <div>12. R-41027766 (GZ factory) only for 12V,24V / R-62002178 (ID factory) for 5V~48V</div> <div>※ Product Liability Disclaimer For detailed information, please refer to <a href="https://www.meanwell.com/service/Disclaimer.aspx">https://www.meanwell.com/service/Disclaimer.aspx</a></div>				
	<a href="#">Arrow.com.</a>	File Name: LPV-100-SPEC 2024-02-19			

## Mechanical Specification

## Static Characteristics



## Documents / Resources



[MEAN WELL LPV-100 Series 100W Single Output Switching Power Supply](#) [pdf] Owner's Manual  
LPV-100 Series, LPV-100 Series 100W Single Output Switching Power Supply, 100W Single Output Switching Power Supply, Single Output Switching Power Supply, Switching Power Supply, Power Supply, Supply

## References

- [User Manual](#)

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