



MEAN WELL LPV-35 Series 35W Single Output Switching Power Supply Owner's Manual

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MEAN WELL LPV-35 Series 35W Single Output Switching Power Supply



Product Information

Model	Output Voltage	Rated Current	Rated Power	Ripple & Noise (max.)	Line Regulation	Load Regulation	Efficiency (Typ.)	Working Temperature	Safety Standards
LPV-35-5	5V	5A	30W	80mVp-p	—	—	77%	-30°C to +70°C	UL1310 class 2, CAN/CSA No. 223-M91, BIS IS15885(for LPV-35-12,LPV-35-24 only), IEC62368-1, EAC TP TC 004, IP67, BS EN/EN62368-1 approved
LPV-35-12	12V	3A	36W	120mVp-p	—	—	84%	-30°C to +70°C	UL1310 class 2, CAN/CSA No. 223-M91, BIS IS15885(for LPV-35-12,LPV-35-24 only), IEC62368-1, EAC TP TC 004, IP67, BS EN/EN62368-1 approved
LPV-35-15	15V	2.4A	36W	120mVp-p	—	—	84%	-30°C to +70°C	UL1310 class 2, CAN/CSA No. 223-M91, BIS IS15885(for LPV-35-12,LPV-35-24 only), IEC62368-1, EAC TP TC 004, IP67, BS EN/EN62368-1 approved
LPV-35-24	24V	1.5A	36W	150mVp-p	—	—	85%	-30°C to +70°C	UL1310 class 2, CAN/CSA No. 223-M91, BIS IS15885(for LPV-35-12,LPV-35-24 only), IEC62368-1, EAC TP TC 004, IP67, BS EN/EN62368-1 approved
LPV-35-36	36V	1A	36W	150mVp-p	—	—	85%	-30°C to +70°C	UL1310 class 2, CAN/CSA No. 223-M91, BIS IS15885(for LPV-35-12,LPV-35-24 only), IEC62368-1, EAC TP TC 004, IP67, BS EN/EN62368-1 approved

Product Usage Instructions

To use the LPV-35 series Single Output Switching Power Supply, please follow the instructions below:

1. Ensure that the input voltage range is within 90 ~ 264VAC or 127 ~ 370VDC.
2. Connect the AC/N (Blue) and AC/L (Brown) wires to the corresponding terminals on the power supply.
3. Connect the +V (Red) and -V (Black) wires to the corresponding positive and negative terminals on your device.
4. Ensure that the mounting direction is as recommended in the user manual.
5. Make sure that the ambient temperature is within the working temperature range of -30°C to +70°C.
6. Check that the load does not exceed the rated current and power of the power supply.
7. Ensure that the power supply is properly grounded.
8. For safety, always follow the safety standards mentioned in the user manual and comply with local electrical

regulations.

Features

- Constant voltage design
- Universal AC input / Full range
- Withstand 300VAC surge input for 5 seconds
- Protections: Short circuit / Overload / Over voltage
- Cooling by free air convection
- Fully encapsulated with IP67 level (Note.8)
- Fully isolated plastic case
- Class I power unit, no FG
- Class 2 power unit
- Pass LPS
- Suitable for LED related fixture or appliance (such as LED Decoration or Advertisement devices (Note. 12)
- 100% full load burn-in test
- Low cost, high reliability
- 2 years warranty

GTIN CODE

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

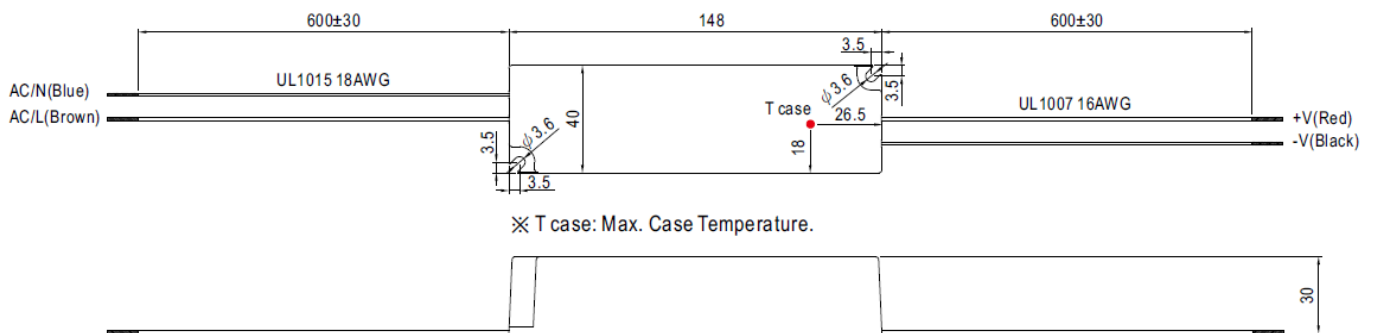
SPECIFICATION

MODEL		LPV-35-5	LPV-35-12	LPV-35-15	LPV-35-24	LPV-35-36
OUTPUT	DC VOLTAGE	5V	12V	15V	24V	36V
	RATED CURRENT	5A	3A	2.4A	1.5A	1A
	CURRENT RANGE	0 ~ 6A (Note.7)	0 ~ 3A	0 ~ 2.4A	0 ~ 1.5A	0 ~ 1A
	RATED POWER	30W	36W	36W	36W	36W
	RIPPLE & NOISE (max.) Note.2	80mVp-p	120mVp-p	120mVp-p	150mVp-p	150mVp-p
	VOLTAGE TOLERANCE Note.3	±6.0%	±5.0%			
	LINE REGULATION	±1.0%				
	LOAD REGULATION	±4.0%	±2.0%			
	SETUP, RISE TIME Note.6	500ms, 20ms / 230VAC 500ms, 20ms / 115VAC at full load				
HOLD UP TIME (Typ.)	50ms/230VAC 16ms/115VAC at full load					
INPUT	VOLTAGE RANGE Note.4	90 ~ 264VAC 127 ~ 370VDC				
	FREQUENCY RANGE	47 ~ 63Hz				
	EFFICIENCY (Typ.)	77%	84%	84%	85%	85%
	AC CURRENT (Typ.)	1.1A/115VAC 0.7A/230VAC				
	INRUSH CURRENT(Typ.)	COLD START 55A(twidth=510μs measured at 50% Ipeak) at 230VAC				
	MAX. No. of PSUs on 16A CIRCUIT BREAKER	4 units (circuit breaker of type B) / 7 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 ~ 6.75V	13.8 ~ 16.2V	17.25 ~ 20.25V	27.6 ~ 32.4V	41.4 ~ 48.6V
		Protection type : Shut down o/p voltage, re-power on to recover				
ENVIRONMENT	WORKING TEMP.	-30 ~ +65°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				

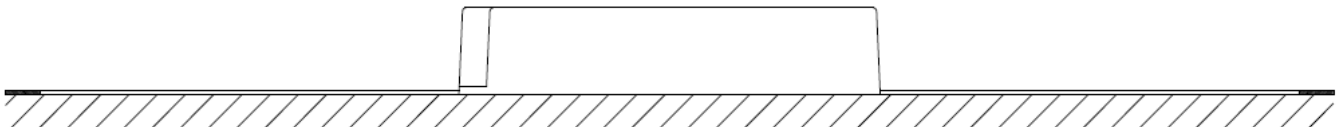
SAFETY & EMC	SAFETY STANDARDS	UL1310 class 2, CAN/CSA No. 223-M91, BIS IS15885(for LPV-35-12,LPV-35-24 only), IEC62368-1, EAC TP TC 004, IP67, BS EN/EN62368-1 approved
	WITHSTAND VOLTAGE	I/P-O/P:3KVAC
	ISOLATION RESISTANCE	I/P-O/P:>100M Ohms / 500VDC / 25°C/ 70% RH
	EMC EMISSION	Compliance to BS EN/EN55032 (CISPR32) Class B, BS EN/EN61000-3-2 Class A, 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	5170.3K hrs min. Telcordia SR-332 (Bellcore) ; 743.5Khrs min. MIL-HDBK-217F (25°C)
	DIMENSION	148*40*30mm (L*W*H)
	PACKING	0.34Kg; 40pcs/14.6Kg/0.70CUFT
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. 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 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. Turning ON/OFF the power supply may lead to increase of the set up time.</p> <p>7. LPV-35-5 can provide 6A of output current continuously. Based on the requirement of UL1310 class 2, the output current is only certified up to 5A for the test report of LPV-35-5.</p> <p>8. Suitable for indoor use or outdoor use without direct sunlight exposure. Please avoid immerse in the water over 30 minute.</p> <p>9. 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>10. Products sourced from the Americas regions may not have the TUV/BIS/CCC logo. Please contact your MEAN WELL sales for more information.</p> <p>11. For any application note and IP water proof function installation caution, please refer our user manual before using.</p> <p>https://www.meanwell.com/Upload/PDF/LED_EN.pdf</p> <p>12. This product is not intended for LED lighting luminaire applications in the EU.(In the EU the LPF/NPF/XLG series are recommended.)</p> <p>※ Product Liability Disclaimer : For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx</p>	

Mechanical Specification

Case No.975A Unit:mm

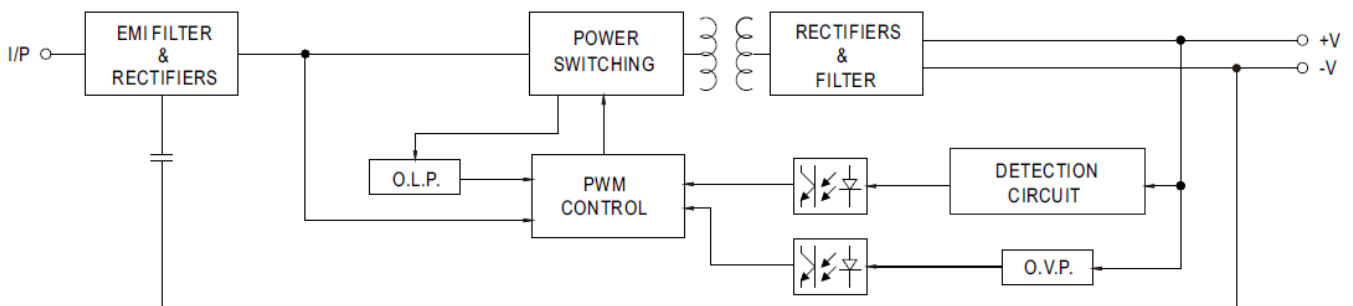


Recommend Mounting Direction

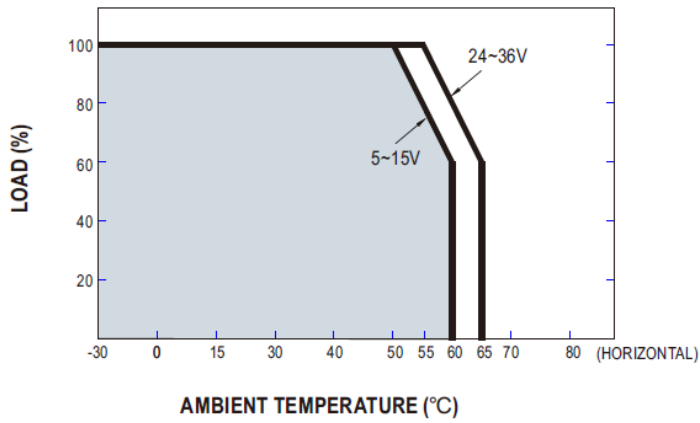


Block Diagram

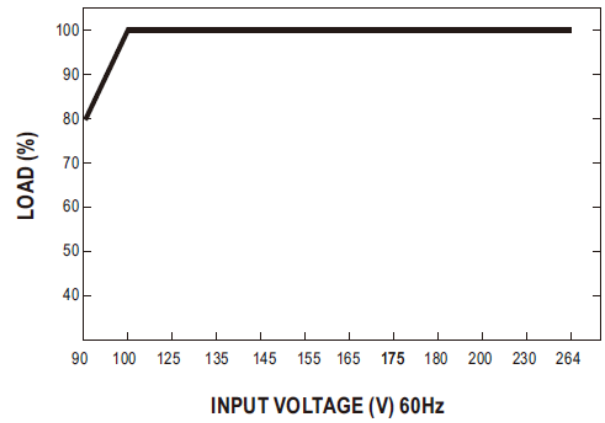
fosc : 65KHz



■ Derating Curve



■ Static Characteristics



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Documents / Resources



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LPV-35 Series 35W Single Output Switching Power Supply, LPV-35 Series, 35W Single Output Switching Power Supply, Power Supply

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