

Project :

Date :

Cat. No. :

Type :

Notes :

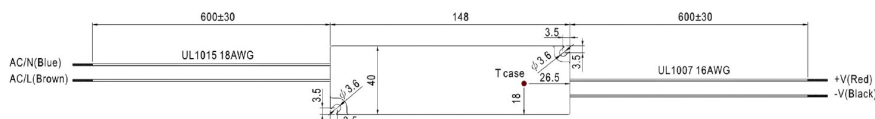
Volts :

CLASS II LED POWER SUPPLY CONSTANT VOLTAGE



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 II power unit, no FG
- Class 2 power unit
- Pass LPS
- Suitable for LED lighting and moving sign applications (Note.8)
- 100% full load burn-in test



SPECIFICATION

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MODEL	LPV-35-12	LPV-35-24	
OUTPUT	DC VOLTAGE	12V	24V
	RATED CURRENT	3A	1.5A
	CURRENT RANGE	0 ~ 3A	0 ~ 1.5A
	RATED POWER	36W	36W
	RIPPLE & NOISE (max.) <small>Nota.2</small>	120mVp-p	150mVp-p
	VOLTAGE TOLERANCE <small>Nota.3</small>	±5.0%	
	LINE REGULATION	±1.0%	
INPUT	LOAD REGULATION	±2.0%	
	SETUP, RISE TIME <small>Nota.6</small>	500ms, 20ms / 230VAC 500ms, 20ms / 115VAC at full load	
	HOLD UP TIME (Typ.)	50ms/230VAC	16ms/115VAC at full load
	VOLTAGE RANGE <small>Nota.4</small>	90 ~ 264VAC 127 ~ 370VDC	
	FREQUENCY RANGE	47 ~ 63Hz	
	EFFICIENCY (Typ.)	84%	85%
	AC CURRENT (Typ.)	1.1A/115VAC 0.7A/230VAC	
PROTECTION	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	
	OVERLOAD	110 ~ 150% rated output power Protection type : Hiccup mode, recovers automatically after fault condition is removed 13.8 ~ 16.2V 27.6 ~ 32.4V	
	OVER VOLTAGE	Protection type : Shut down o/p voltage, re-power on to recover	
ENVIRONMENT	WORKING TEMP.	-30 ~ +85°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)	
SAFETY & EMC	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes	
	SAFETY STANDARDS	UL1310 class 2, CAN/CSA No. 223-M91, CB I/EC61347-1, IEC61347-2-13, IP67 approved ; design refer to TUV EN60950-1	
	WITHSTAND VOLTAGE	I/P-O/P:3KVAC	
	ISOLATION RESISTANCE	I/P-O/P:>100M Ohms / 500VDC / 25°C/ 70% RH	
	EMC EMISSION	Compliance to EN55022 (CISPR22) Class B, EN61000-3-2 Class A, EN61000-3-3	
OTHERS	EMC IMMUNITY	Compliance to EN61000-4-2, 3, 4, 5, 6, 8, 11, EN55024, light industry level, criteria A	
	MTBF	743.5Khrs min. MIL-HDBK-217F (25°C)	
	PACKING	148*40*30mm (L*W*H) 0.34Kg; 40pcs/14.6Kg/0.63CUFT	
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 & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 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.</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. 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.</div> <div>8. The unit might not be suitable for lighting applications in EU countries. Please check with your local authorities for the possible use of the unit.</div> <div>9. Suitable for indoor use or outdoor use without direct sunlight exposure. Please avoid immerse in the water over 30 minute.</div>		

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This specification is valid as of 2022-09 and is subject to change without notice. Please confirm with the manufacturer before placing an order.
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