

100W Single Output Switching Power Supply LPV-100 series



■ Features :

- Constant voltage design
- Universal AC input / Full range
- Fully encapsulated with IP67 level (Note.8)
- Withstand 300VAC surge input for 5 seconds
- Protections: Short circuit / Over current / Over voltage
- Fully isolated plastic case
- Cooling by free air convection
- 100% full load burn-in test
- Low cost, high reliability
- Suitable for LED lighting and moving sign applications(Note 7.)
- 2 years warranty

□ IP67 CE

SPECIFICATION

MODEL		LPV-100-12		LPV-100-24	
OUTPUT	DC VOLTAGE	12V		24V	
	RATED CURRENT	8.5A		4.2A	
	CURRENT RANGE	0 ~ 8.5A		0 ~ 4.2A	
	RATED POWER	102W		100.8W	
	RIPPLE & NOISE (max.) Note.2	120mVp-p		150mVp-p	
	VOLTAGE TOLERANCE Note.3	± 5.0%			
	LINE REGULATION				
	LOAD REGULATION	± 2.0%			
	SETUP, RISE TIME Note.6	2000ms, 25ms / 230VAC 2000ms, 25ms / 115VAC			
HOLD UP TIME (Typ.)	50ms/230VAC 14ms/115VAC at full load				
INPUT	VOLTAGE RANGE Note.4	90 ~ 264VAC		127 ~ 370VDC	
	FREQUENCY RANGE	47 ~ 63Hz			
	EFFICIENCY (Typ.)	85%		88%	
	AC CURRENT	2.2A/115VAC 1.2A/230VAC			
	INRUSH CURRENT(Typ.)	COLD START 75A(twidth=700μs measured at 50% Ipeak) at 230VAC			
	LEAKAGE CURRENT	0.25mA / 240VAC			
PROTECTION	OVER CURRENT	110 ~ 150% rated output power Protection type : Hiccup mode, recovers automatically after fault condition is removed			
	OVER VOLTAGE	13.8 ~ 16.2V		27.6 ~ 32.4V	
		Protection type : Shut down o/p voltage, 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%/°C (0 ~ 50°C)			
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes			
SAFETY & EMC	SAFETY STANDARDS	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(≤ 80% load), EN61000-3-3			
OTHERS	EMC IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11; EN55024, light industry level, criteria A			
	MTBF	703Khrs min. MIL-HDBK-217F (25°C)			
	DIMENSION	190*52*37mm (L*W*H)			
	PACKING	0.63Kg;20pcs/13.6Kg/0.51CUFT			
NOTE	1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. 2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. 3. Tolerance : includes set up tolerance, line regulation and load regulation. 4. Derating may be needed under low input voltage. Please check the static characteristics for more details. 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. 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. 7. 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. 8. Suitable for indoor use or outdoor use without direct sunlight exposure.				