

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

SPECIFICATION

□ IP67 **(€**

MODEL		LPV-100-5	LPV-100-12	LPV-100-15	LPV-100-24	LPV-100-36	LPV-100-48	
ОИТРИТ	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%		10 00 00	11 15 15 15 15 15 15 15 15 15 15 15 15 1	10 3393	
	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						
INPUT	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% lpeak) at 230VAC						
	LEAKAGE CURRENT	0.25mA / 240VAC						
PROTECTION		110 ~ 150% rated output power Protection type: Hiccup mode, recovers automatically after fault condition is removed						
	OVER CURRENT							
		5.75 ~ 6.75V	13.8 ~ 16.2V	17.25 ~ 20.25V	27.6 ~ 32.4V	41.4 ~ 48.6V	55.2 ~ 64.8V	
	OVER VOLTAGE	Protection type : S	hut down o/p voltage	e, re-power on to recove				
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 &	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						
	EMC IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11; EN55024, light industry level, criteria A						
OTHERS	MTBF		IL-HDBK-217F (25°		,			
	DIMENSION	190*52*37mm (L*\	ACCOUNT OF THE PARTY OF THE PAR	~/.				
	PACKING	0.63Kg;20pcs/13.						
NOTE	All parameters NOT specia Ripple & noise are measure Tolerance: includes set up Derating may be needed up The power supply is consided complete installation, the fir Length of set up time is me The unit might not be suitate.	All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. Folerance: includes set up tolerance, line regulation and load regulation. Derating may be needed under low input voltage. Please check the static characteristics for more details. 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. 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. 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. Suitable for indoor use or outdoor use without direct sunlight exposure.						

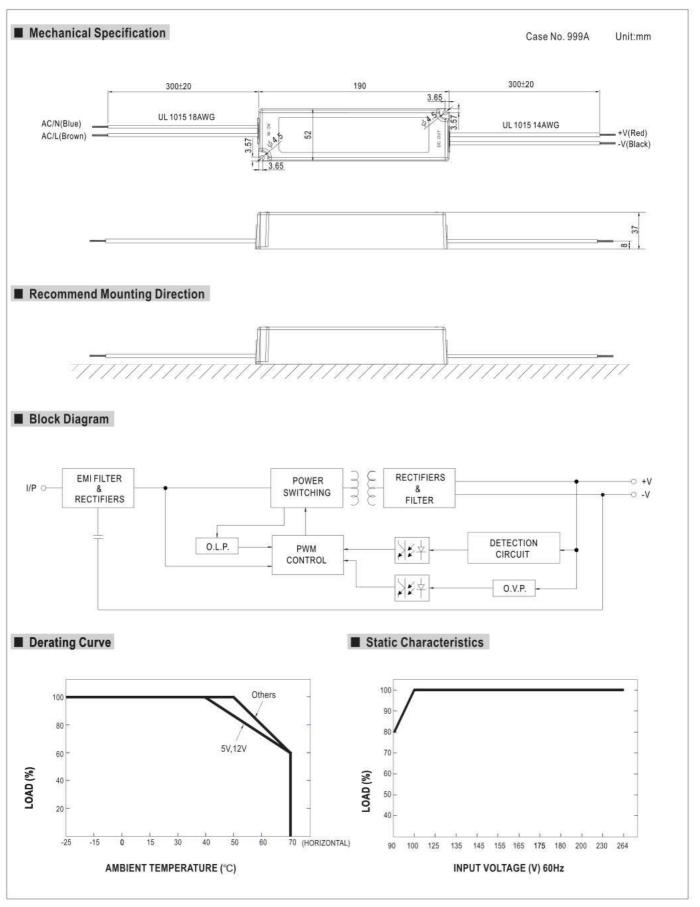
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