

20W Single Output Switching Power Supply LPV-20 series



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
- Small and compact size
- Fully encapsulated with IP67 level (Note.7)
- Fully isolated plastic case
- \bullet Class ${\rm I\hspace{-.1em}I}$ power unit, no FG
- · Class 2 power unit
- Pass LPS
- Suitable for LED lighting and moving sign applications
- 100% full load burn-in test
- · Low cost, high reliability
- 2 years warranty

SPECIFICATION

□ LPS IP67 • ¶Us CE

MODEL		LPV-20-12	LPV-20-24
	DC VOLTAGE	12V	24V
ОИТРИТ	RATED CURRENT	1.67A	0.84A
	CURRENT RANGE	0 ~ 1.67A	0 ~ 0.84A
	RATED POWER	20W	20.2W
	RIPPLE & NOISE (max.) Note.2		150mVp-p
	VOLTAGE TOLERANCE Note.3		100
	LINE REGULATION	±1.0%	
	LOAD REGULATION	±2.0%	
		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.)	81%	83%
	AC CURRENT (Typ.)	0.55A/115VAC 0.35A/230VAC	
	INRUSH CURRENT(max.)	COLD START 70A(twidth=215\(\mu\)s measured at 50% peak) 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	13.8 ~ 16V	28 ~ 32V
		Protection type : Shut off o/p voltage, clamping by zener diode	
ENVIRONMENT	WORKING TEMP.	-30 ~ +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	UL879, UL1310, CSA C22.2 No. 207-M89, CAN/CSA C22.2 No. 223-M91, 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℃ / 70% RH	
	EMC EMISSION	Compliance to EN55022 (CISPR22) Class B, EN61000-3-2 Class A, EN61000-3-3	
	EMC IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11, EN55024, light industry level, criteria A	
OTHERS	MTBF	786.5Khrs min. MIL-HDBK-217F (25°C)	
	DIMENSION	118*35*26mm (L*W*H)	
	PACKING	0.22Kg; 60pcs/14.2Kg/0.62CUFT	
NOTE	 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. Tolerance: 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. Suitable for indoor use or outdoor use without direct sunlight exposure. Please avoid immerse in the water over 30 minute. 		

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