

20W Single Output Switching Power Supply

LPV-20 series

User's Manual

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GTIN CODE

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

100% full load burn-in test Low cost, high reliability

2 years warranty

Features :

Constant voltage design

• Universal AC input / Full range

Cooling by free air convectionSmall and compact size

Fully isolated plastic case
Class II power unit, no FG
Class 2 power unit
Pass LPS

Withstand 300VAC surge input for 5 seconds
Protections: Short circuit / Over load / Over voltage

• Fully encapsulated with IP67 level (Note.7)

Suitable for LED related fixture or appliance

(such as LED Decoration or Advertisement devices)(Note.11)

SPECIFICATION

MODEL		LPV-20-5	LPV-20-12	LPV-20-15	LPV-20-24
	DC VOLTAGE	5V	12V	15V	24V
OUTPUT	RATED CURRENT	3A	1.67A	1.33A	0.84A
	CURRENT RANGE	0~3A	0~1.67A	0~1.33A	0~0.84A
	RATED POWER	15W	20W	20W	20.2W
	RIPPLE & NOISE (max.) Note.2	80mVp-p	120mVp-p	120mVp-p	150mVp-p
	VOLTAGE TOLERANCE Note.3	±5.0%			
	LINE REGULATION	±1.0%			
	LOAD REGULATION	±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%	81%	83%	83%
	AC CURRENT (Typ.)	0.55A/115VAC 0.3			
	INRUSH CURRENT(Typ.)	COLD START 70A(twidth=215µs measured at 50% lpeak) at 230VAC			
	MAX. No. of PSUs on 16A CIRCUIT BREAKER	8 units (circuit breaker of type B) / 14 units (circuit breaker of type C) at 230VAC			
	LEAKAGE CURRENT	0.25mA / 240VAC			
PROTECTION		110 ~ 150% rated output power			
	OVER LOAD	Protection type : Hiccup mode, recovers automatically after fault condition is removed			
		5.75 ~ 6.75V	13.8 ~ 16V	17.5 ~ 21V	28~32V
	OVER VOLTAGE		off o/p voltage, clamping by zer		
ENVIRONMENT	WORKING TEMP.	-30 ~ +70°C (Refer to "Derating Curve")			
		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 OTHERS	SAFETY STANDARDS	UL879, UL1310, CSA C22.2 No. 207-M89,CAN/CSA C22.2 No. 223-M91,IEC/BS EN/EN 62368-1, IS 15885(Part2/Sec13)(NOTE 12), EAC TP TC 004,IP67 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			
	MTBF	6025.8K hrs min. Telcordia SR-332 (Bellcore); 786.5Khrs min. MIL-HDBK-217F (25°C)			
	DIMENSION	118*35*26mm (L*W*H)			
	PACKING	0.22Kg; 60pcs/14.2Kg/0.72CUFT			
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. (as available on https://www.meanwell.com//Upload/PDF/EMI_statement_en.pdf) 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. 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). Products sourced from the Americas regions may not have the TUV/BIS/CCC logo. Please contact your MEAN WELL sales for more information. For any application note and IP water proof function installation caution, please refer our user manual before using. https://www.meanwell.com/Upload/PDF/LED_EN.pdf This product is not intended for LED lighting luminaire applications in the EU and China.(In the EU and China the LPF/NPF/XLG/XLC/XLN series are recommended.) Products sourced from the China regions may not have the BIS logo, please contact your MEAN WELL sales for more information. 				



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