

## 20W Single Output Switching Power Supply

# LPV-20 series



Features :

- Constant voltage mode power supply
- Universal AC input / Full range
- Fully encapsulated with IP67 level (Note.7)
- Withstand 300VAC surge input for 5 seconds
- Protections: Short circuit / Over current / Over voltage
- Fully isolated plastic case
- Cooling by free air convection
- Small and compact size
- UL1310 Class 2 power unit
- Pass LPS
- 100% full load burn-in test
- · Low cost, high reliability
- Suitable for LED lighting and moving sign applications
- 2 years warranty

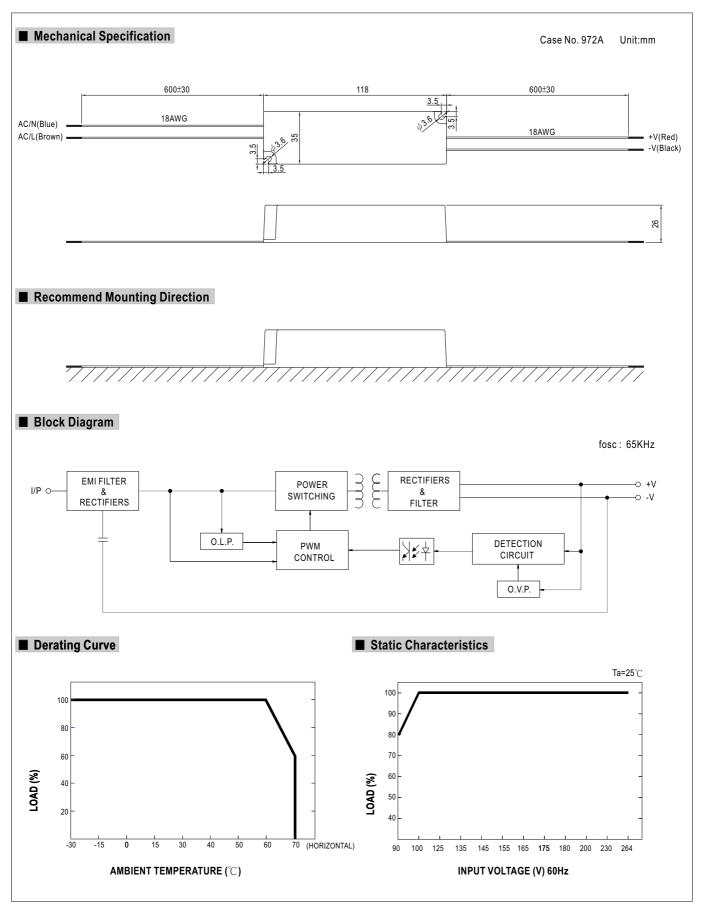
#### SPECIFICATION

SPECIFIC	ATION	<ul> <li>Suitable for LED lighting and moving sign applications</li> <li>2 years warranty</li> <li>LPS IP67 Support CE</li> </ul>			
MODEL		LPV-20-5	LPV-20-12	LPV-20-15	LPV-20-24
OUTPUT	DC VOLTAGE	5V	12V	15V	24V
	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	0.55A/115VAC 0.35A/230VAC			
	INRUSH CURRENT(max.)	COLD START 35A/115VAC 70A/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			
		5.75 ~ 6.75V	13.8 ~ 16V	17.5 ~ 21V	28 ~ 32V
	OVER VOLTAGE				28 ~ 32 V
ENVIRONMENT	WORKING TEMP.	Protection type : Shut off o/p voltage, clamping by zener diode -30 ~ +70℃ (Refer to output load 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 STANDARDS	UL879, UL1310 Class 2, CAN/CSA C22.2 No. 223-M91, IP67 approved ; design refer to TUV EN60950-1, EN61347-2-13			
	WITHSTAND VOLTAGE	I/P-O/P:3KVAC			
SAFETY &	TY & ISOLATION RESISTANCE I/P-O/P:>100M Ohms / 500VDC / 25°C/ 70% RH				
EMC	EMI CONDUCTION & RADIATION				
	HARMONIC CURRENT	Compliance to EN61000-3-2 Class A, EN61000-3-3			
	EMS IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11; ENV50204, EN55024, light industry level, criteria A			
OTHERS	MTBF	786.5Khrs min. MIL-HDBK-217F (25℃)			
	DIMENSION	118*35*26mm (L*W*H)			
	PACKING	0.22Kg; 60pcs/14.2Kg/0.62CUF	T		
NOTE	<ol> <li>All parameters NOT specia</li> <li>Ripple &amp; noise are measure</li> <li>Tolerance : includes set up</li> <li>Derating may be needed ui</li> <li>The power supply is consid complete installation, the fir</li> <li>Length of set up time is me</li> </ol>	NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. ludes set up tolerance, line regulation and load regulation. pe needed under low input voltage. Please check the static characteristics for more details. ply is considered as a component that will be operated in combination with final equipment. Since EMC performance will be affected by the lation, the final equipment manufacturers must re-qualify EMC Directive on the complete installation again. pt time is measured at first cold start. Turning ON/OFF the power supply may lead to increase of the set up time. loor use or outdoor use without direct sunlight exposure. Please avoid immerse in the water over 30 minute.			



### 20W Single Output Switching Power Supply

## LPV-20 series



File Name:LPV-20-SPEC 2011-03-09