

100W Single Output Switching Power Supply

LPV-100 series



Features :

Constant voltage design

Universal AC input / Full range

Eully encapsulated with IP67 level (Note.8)

Withstand 300VAC surge input for 5 seconds

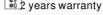
Protections: Short circuit / Overload / Over voltage

Cooling by free air convection

w cost, high reliability

Buitable for LED related fixture or appliance

(such as LED Decoration or Advertisement devices)(Note 7.)





SPECIFICATION

	LPV-100-5	LPV-100-12	1 01/100 15	LPV-100-24	LPV-100-36	LPV-100-48
			LPV-100-15			
						48V
						2.1A
						0~2.1A
						100.8W
			120mVp-p	150mVp-p	150mVp-p	150mVp-p
	3 ±8.0% ±5.0%					
SETUP, RISE TIME Note.6						
HOLD UP TIME (Typ.)	50ms/230VAC 14ms/115VAC at full load					
VOLTAGE RANGE Note.4	4 90 ~ 264VAC 127 ~ 370VDC 47 ~ 63Hz					
FREQUENCY RANGE						
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					
MAX. No. of PSUs on 16A CIRCUIT BREAKER	2 units (circuit breaker of type B) / 3 units (circuit breaker of type C) at 230VAC					
LEAKAGE CURRENT	0.25mA/240VAC					
OVERLOAD	110 ~ 150% rated output power					
PROTECTION OVER VOLTAGE						
	PAGE TEMP., HUMIDITY -40 ~ +80°C, 10 ~ 95% RH P. COEFFICIENT ±0.03%°C (0 ~ 50°C)					
VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes					
SAFETY STANDARDS	UL8750, CSA C22.2 No 250.13-12, UL879, CSA C22.2 No.207-M89, IP67 approved. Design refer to 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 EN55032 (CISPR32) Class B, EN61000-3-2 Class A(≤ 80% load), EN61000-3-3					
EMC IMMUNITY	Compliance to EN6	61000-4-2,3,4,5,6,8,	11; EN55024, light ind	lustry level, criteria A		
MTBF	703Khrs min. MIL-HDBK-217F (25°C) 190*52*37mm (L*W*H)					
DIMENSION						
PACKING	0.63Kg;20pcs/13.6Kg/0.55CUFT					
 Ripple & noise are measure Tolerance : includes set up Derating may be needed ur The power supply is consid complete installation, the fin Length of set up time is me The unit might not be suitable 	ed at 20MHz of ban tolerance, line regu nder low input voltag ered as a compone tal equipment manu asured at first cold ole for lighting applic	dwidth by using a 1 lation and load regu- ge. Please check th nt that will be opera facturers must re-q start. Turning ON/O cations in EU counti	2" twisted pair-wire te ilation. e static characteristic tted in combination w ualify EMC Directive of FF the power supply ies. Please check wil	erminated with a 0.1ul s for more details. ith final equipment. S on the complete insta may lead to increase	k 47uf parallel capa ince EMC performand llation again. of the set up time.	e will be affected by the
	VOLTAGE TOLERANCE Note.3 LINE REGULATION LOAD REGULATION SETUP, RISE TIME Note.6 HOLD UP TIME (Typ.) VOLTAGE RANGE Note.4 FREQUENCY RANGE EFFICIENCY (Typ.) AC CURRENT INRUSH CURRENT(Typ.) MAX. No. of PSUs on 16A CIRCUIT BREAKER LEAKAGE CURRENT OVER LOAD OVER VOLTAGE WORKING TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION EMC IMMUNITY MTBF DIMENSION PACKING 1. All parameters NOT special 2. Ripple & noise are measure 3. Tolerance : includes set up 4. Derating may be needed ur 5. The power supply is consid complete installation, the fin 6. Length of set up time is me 7. The unit might not be suitat	RATED CURRENT12ACURRENT RANGE $0 \sim 12A$ RATED POWER $60W$ RIPPLE & NOISE (max.) Note.2 $80mVp-p$ VOLTAGE TOLERANCE Note.3 $\pm 8.0\%$ LINE REGULATION $\pm 1.0\%$ LOAD REGULATION $\pm 6.0\%$ SETUP, RISE TIMENote.62000ms, 25ms / 23HOLD UP TIME (Typ.) $50ms/230VAC$ VOLTAGE RANGENote.490 ~ 264VACFREQUENCY RANGE $47 \sim 63Hz$ EFFICIENCY (Typ.) 80% AC CURRENT $2.2A/115VAC$ INRUSH CURRENT(Typ.)COLD START 75AMAX. No. of PSUs on 16A $2 units (circuit breatCIRCUIT BREAKER2 units (circuit breatLEAKAGE CURRENT0.25mA/240VACOVERLOAD110 \sim 150\%rated coProtection type : H5.75 \sim 6.75VVORKING TEMP.-25 \sim +70^{\circ}C (RefeatWORKING HUMIDITY20 \sim 90\% RH nonedSTORAGE TEMP, HUMIDITY-40 \sim +80^{\circ}C, 10 \sim 50VIBRATION10 \sim 500Hz, 23 10SAFETY STANDARDSUL8750, CSA C22.2WTHSTAND VOLTAGEI/P - O/P > 100MOchEMC IMMUNITYCompliance to ENEEMC IMMUNITYCompliance to ENEEMC IMMUNITYCompliance to ENEMTBF703Khrs min.MIBF703Khrs min.Nolerance : includes set up tolerance, line regu4. Derating may be needed under low input voltage5. The power supply is considered as a compone6. Length of set up time is measured at first cold of7. The unit might not $	RATED CUPRENT12A8.5ACUPRENT PANGE0 ~ 12A0 ~ 8.5APATED POWER60W102WRIPPLE & NOISE (max.) Note.280mVp-p120mVp-pVOLTAGE TOLERANCE Note.3 $\pm 8.0\%$ $\pm 5.0\%$ LINE REGULATION $\pm 1.0\%$ $\pm 0.0\%$ LOAD REGULATION $\pm 6.0\%$ $\pm 2.0\%$ SETUP, RISE TIMENote.62000ms, 25ms/230VACVOLTAGE RANGENote.490 ~ 264VAC127 ~ 370VDCFREQUENCY RANGE47 ~ 63HzEFFICIENCY (Typ.)80%85%AC CUPRENT2.2A/115VAC1.2A/230VACINRUSH CUPRENT(Typ.)COLD START 75A(twidth=700µs measMAX. No. of PSUs on 16A CIRCUIT BREAKER2 units (circuit breaker of type B) / 3 unitLEAKAGE CURRENT0.25mA/ 240VACOVERLOAD110 ~ 150% rated output powerProtection type : Hiccup mode, recoverOVERLOAD $5.75 ~ 6.75V$ 13.8 ~ 16.2VWORKING TEMP25 ~ +70°C (Refer to "Derating Qurve"WORKING TEMP25 ~ +70°C (Refer to "Derating Qurve"WORKING TEMP25 ~ +70°C (Refer to "Derating Qurve"WORKING HUMIDITY20 ~ 90% RH non-condensingSTORAGE TEMP., HUMIDITY40 ~ +80°C, 10 ~ 95% RHTEMP. COEFFICIENT $\pm 0.03\%^{0}C$ (0 ~ 50°C)VIBRATION10 ~ 500Hz, 26 10min/1cycle, period ffSAFETY STANDARDSUL8750, CSAC22.2 No 250.13.12, UL8WITHSTAND VOLTAGEI/P-O'P:310MOhms / 500VDC / 25°CEMC EMISSIONCompliance to EN55032 (CISPR32) CAEMC INMUNITYCompliance to EN561	PATED CURRENT12A8.5A6.7ACURRENT RANGE0 ~ 12A0 ~ 8.5A0 ~ 6.7ARATED POWER60W102W100.5WRIPPLE & NOISE (max.) Note.280mVp-p120mVp-pVOLTAGE TOLEPANCE Note.3 $\pm 8.0\%$ $\pm 5.0\%$ LINE REGULATION $\pm 1.0\%$ LOAD REGULATIONLOAD REGULATION $\pm 6.0\%$ $\pm 2.0\%$ SETUP, RISE TIMENote.62000ms, 25ms / 230VACHOLD UP TIME (Typ.)50ms/230VAC14ms/115VAC at full loadVOLTAGE RANGENote.490 ~ 264VACVOLTAGE RANGENote.490 ~ 264VACCURRENT (Typ.)80%85%RAC CURRENT (Typ.)80%RAC CURRENT (Typ.)COLD START 75A(twidth=700µs measured at 50% lpeak) atMAX. 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Note.280mVp.p120mVp.p120mVp.pVOLTAGE TOLERANCE Note.3$\pm 8.0\%$$\pm 5.0\%$LINE REGULATION$\pm 1.0\%$$\pm 0.0\%$LOAD REGULATION$\pm 1.0\%$LOAD REGULATION$\pm 0.0\%$SETUP, RISE TIMENote.62000ms, 25ms / 230VAC2000ms, 25ms / 115VACHOLD UP TIME (Typ.)50ms / 230VACVOLTAGE RANGENote.490 ~ 264VAC127 ~ 370VDCFRECUENCY RANCE47 ~ 63HzEFFICIENCY (Typ.)80%88%87%88%6C CURRENT2.24/115VAC1.2A/230VACINRUSH CURRENT(Typ.)OOLD START 75A(width=700µs measured at 50% [peak) at 230VACMAX. 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