

## LPV-100E Series single output switching power supply



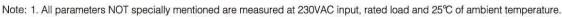
## Features:

- · Constant voltage design
- · Universal AC input range/withstand 300VAC surge input for 5 seconds
- · Fully encapsulated with IP67 level, Fully isolated plastic case, laser labeling
- · Protections: short circuit, over load, over voltage
- · Cooling by free air convection
- · Class II power unit,no FG;Class 2 power unit
- · Passed LPS(Limited Power Source) Test
- · 100% full load burn-in test
- · Suitable for LED lighting and moving sign applications
- · High reliability/Low cost





SPECIFIC	Dimension: 190	× 52 × 37mm	• 2Years war			" 🗆 LPS IP	67 C E 1/2
	Model	LPV-100E-5	LPV-100E-12	LPV-100E-15	LPV-100E-24	LPV-100E-36	LPV-100E-4
	DC voltage	5V	12V	15V	24V	36V	48V
Output	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	80mVp-p	120mVp-p	120mVp-p	150mVp-p	150mVp-p	150mVp-p
	Voltage tolerance	±8.0% ±5.0%					
	Line regulation	±1.0%					
	Load regulation	± 6.0%	± 2.0%				
	Setup,rise time	2000ms,25ms/230VAC 2000ms,25ms/115VACat full load					
	Hold up time	50ms/230VAC 14ms/115VAC at full load					
Input	Voltage range	90~264VAC	127~370VDC				
	Efficiency	80%	85%	87%	88%	88%	89%
	Frequency range	47~63Hz					
	AC current	2.2A/115VAC 1.2A/230VAC					
	Inrush current	Cold start 75A/230VAC (twidth=700 µ s measured at 50% Ipeak)					
	Leakage current	<0.25mA/240VAC					
Protection	Overload	110~150% rated output power Start overload protection					
		Protection type: hiccup mode, auto-recovery after fault condition is removed					
	Over voltage	5.75~6.75V	13.8~16.2V	17.25~20.25V	27.6~32.4V	41.4~48.6V	55.2~64.8V
		Protection type: Shut down output voltage,re-power on to recover					
Environment	Working temperature	-30°C ~ +70°C(Please refer to "derating curve")					
	Working humidity	20%~90%RH Non-condensing					
	Storage temp, humidity	-40°C ~ +80°C;10%~95%RH					
	Temp.coefficient	±0.03%/°C (0~50°C)					
	Vibration	10~500Hz, 2G 10min./1Cycle, Period for 60min, Each axes					
Safety& EMC	Safety standards	IP67 approved;design refer to TUV EN 60950-1					
	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(≤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	685K hrs min. MIL-HDBK-217F(25℃)					
	Dimension	190*52*37 mm ( L*W*H )					
	Packing	0.68kg/20pcs/13.5kgs/0.018m³/0.63CUFT					



- 2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.
- 3. Tolerance: includes set up tolerance, line regulation and load regulation.
- 4. 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.
- 5. Suitable for indoor use or outdoor use without direct sunlight exposure. Please avoid immerse in the water over 30 minute.
- 6. Derating may be needed under low input voltage. Please check the static characteristics for more details.

  7. Length of set uo time is measured at first cold start. Turning ON/OFF the power supply may lead to increase of the set up time.