


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
- 2 Years warranty


SPECIFICATION Dimension: 190 x 52 x 37mm

	Model	LPV-100E-5	LPV-100E-12	LPV-100E-15	LPV-100E-24	LPV-100E-36	LPV-100E-48
Output	DC voltage	5V	12V	15V	24V	36V	48V
	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/115VAC at 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 (twist=700µs 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°C/70%RH					
	EMC emission	Compliance to EN55022(CISPR22) Class B, EN61000-3-2 Class A (≤80%load), EN61000-3-3					
Others	EMC immunity	Compliance to EN61000-4-2, 3, 4, 5, 6, 8, 11, EN55024, light industry level, criteria A					
	MTBF	685K hrs min.	MIL-HDBK-217F(25°C)				
	Dimension	190*52*37 mm (L*W*H)					
	Packing	0.68kg/20pcs/13.5kgs/0.018m³/0.63CUFT					

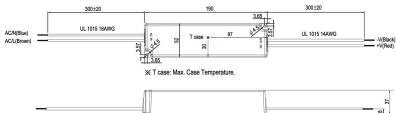
- Note: 1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.
 2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1µf & 47µf parallel capacitor.
 3. Tolerance: includes set up tolerance, 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 minutes.
 6. Derating may be needed under low input voltage. Please check the static characteristics for more details.
 7. 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.

Mechanical specification

Unit:mm

lead-out wire assignment

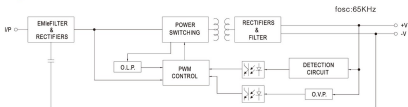
Input		Output	
Blue	ACN	Black	DC OUTPUT -V
Brown	ACL	Red	DC OUTPUT +V



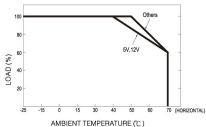
Recommend Mounting Direction



Block diagram



Derating curve



Static characteristic

