



#### ■ Features :

- \*Constant voltage design
- \*Universal AC input / Full range
- \*Fully encapsulated with IP67 level (Note.8)
- \*Withstand 300VAC surge input for 5 seconds
- \*Protections: Short circuit / Over current / Over voltage
- \*Fully isolated plastic case
- \*Cooling by free air convection
- \*100% full load burn-in test
- \*Low cost, high reliability
- \*Suitable for LED lighting and moving sign applications(Note 7.)

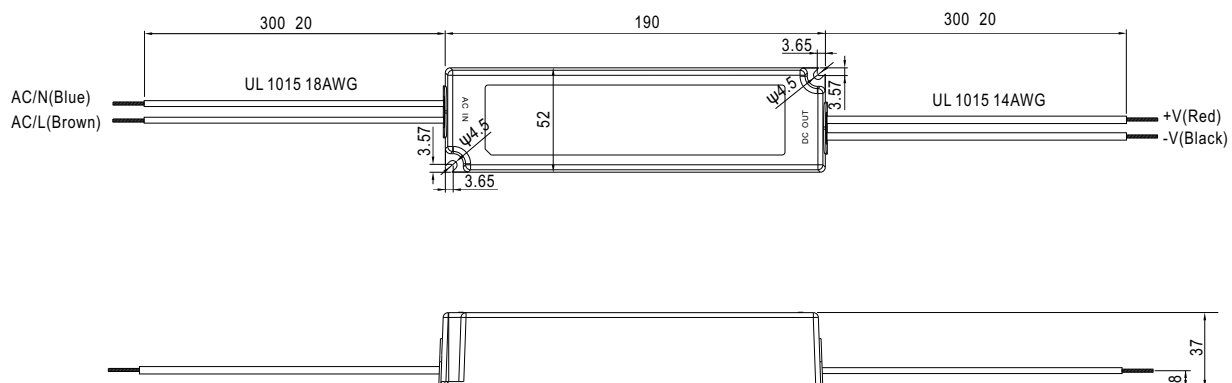


#### SPECIFICATION

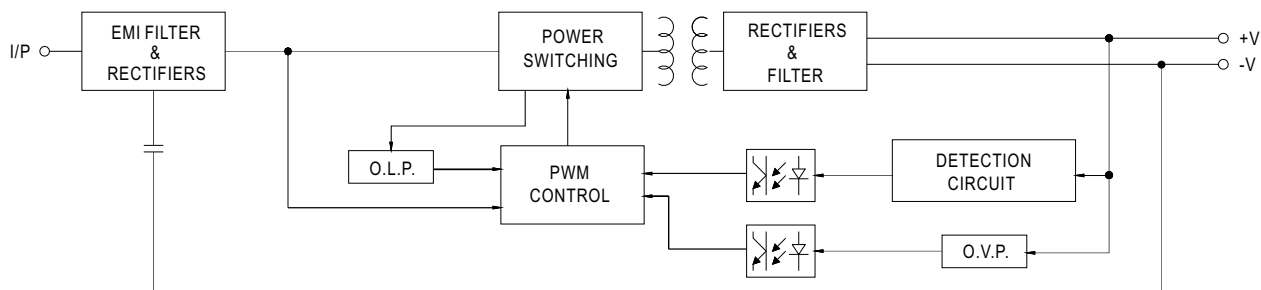
MODEL		LPV-100-5
OUTPUT	DC VOLTAGE	5V
	RATED CURRENT	12A
	CURRENT RANGE	0 ~ 12A
	RATED POWER	60W
	RIPPLE & NOISE (max.) Note.2	80mVp-p
	VOLTAGE TOLERANCE Note.3	8.0%
	LINE REGULATION	1.0%
	LOAD REGULATION	6.0%
	SETUP, RISE TIME Note.6	2000ms, 25ms / 230VAC 2000ms, 25ms / 115VAC
	HOLD UP TIME (Typ.)	50ms/230VAC 14ms/115VAC at full load
INPUT	VOLTAGE RANGE Note.4	90 ~ 264VAC 127 ~ 370VDC
	FREQUENCY RANGE	47 ~ 63Hz
	EFFICIENCY (Typ.)	80%
	AC CURRENT	2.2A/115VAC 1.2A/230VAC
	INRUSH CURRENT(max.)	COLD START 30A/115VAC 75A/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
	OVER VOLTAGE	5.75 ~ 6.75V Protection type : Shut down o/p voltage, re-power on to recover
ENVIRONMENT	WORKING TEMP.	-25 ~ +70°C (Refer to "Derating Curve")
	WORKING HUMIDITY	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	SAFETY STANDARDS	IP67 approved; Design refer to TUV EN60950-1, EN61347-2-13
	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
	EMC IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11; EN55024, light industry level, criteria A
OTHERS	MTBF	703Khrs min. MIL-HDBK-217F (25°C)
	DIMENSION	190*52*37mm (L*W*H)
	PACKING	0.63Kg;20pcs/13.6Kg/0.51CUFT
NOTE	<ol style="list-style-type: none"> <li>1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.</li> <li>2. Ripple &amp; noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf &amp; 47uf parallel capacitor.</li> <li>3. Tolerance : includes set up tolerance, line regulation and load regulation.</li> <li>4. Derating may be needed under low input voltage. Please check the static characteristics for more details.</li> <li>5. 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.</li> <li>6. 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.</li> <li>7. In the European market this product is only suitable for LED lighting applications that don't have to comply with the harmonic current requirements of EN61000-3-2 Class C.</li> <li>8. Suitable for indoor use or outdoor use without direct sunlight exposure.</li> </ol>	

## ■ Mechanical Specification

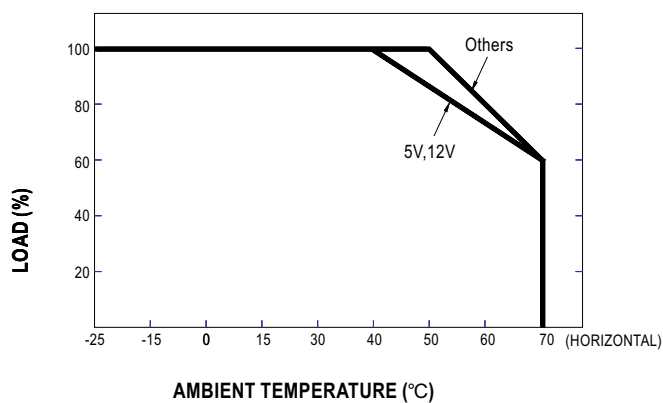
Case No. 999A      Unit:mm



### ■ Block Diagram



### Derating Curve



### ■ Static Characteristics

