

■ Features :

- Constant voltage design
- Universal AC input / Full range
- Withstand 300VAC surge input for 5 seconds
- Protections: Short circuit / Overload / Over voltage
- Cooling by free air convection
- Fully encapsulated with IP67 level (Note.9)
- Fully isolated plastic case
- Class II power unit, no FG
- Pass LPS
- Suitable for LED lighting and moving sign applications (Note.8)
- 100% full load burn-in test
- Low cost, high reliability
- 2 years warranty



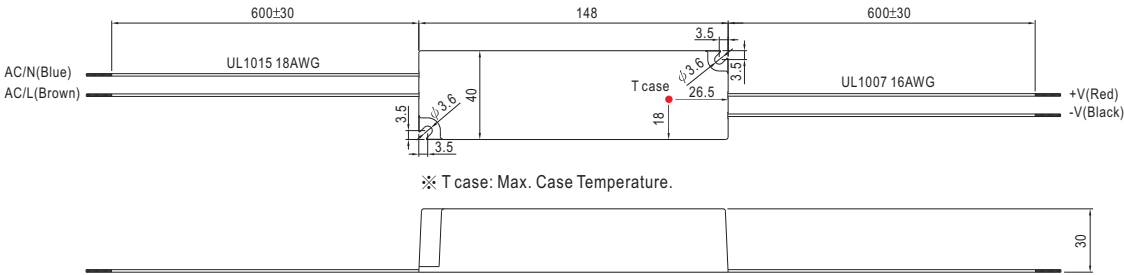
**SPECIFICATION**

MODEL	LPV-35-5	LPV-35-12	LPV-35-15	LPV-35-24	LPV-35-36	
OUTPUT	DC VOLTAGE	5V	12V	15V	24V	36V
	RATED CURRENT	5A	3A	2.4A	1.5A	1A
	CURRENT RANGE	0 ~ 6A (Note.7)	0 ~ 3A	0 ~ 2.4A	0 ~ 1.5A	0 ~ 1A
	RATED POWER	30W	36W	36W	36W	36W
	RIPPLE & NOISE (max.) Note.2	80mVp-p	120mVp-p	120mVp-p	150mVp-p	150mVp-p
	VOLTAGE TOLERANCE Note.3	±6.0%	±5.0%			
	LINE REGULATION	±1.0%				
	LOAD REGULATION	±4.0%	±2.0%			
INPUT	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			
	VOLTAGE RANGE Note.4	90 ~ 264VAC	127 ~ 370VDC			
	FREQUENCY RANGE	47 ~ 63Hz				
	EFFICIENCY (Typ.)	77%	84%	84%	85%	85%
	AC CURRENT (Typ.)	1.1A/115VAC	0.7A/230VAC			
PROTECTION	INRUSH CURRENT(max.)	COLD START 30A/115VAC	60A/230VAC			
	LEAKAGE CURRENT	0.25mA / 240VAC				
	OVERLOAD	110 ~ 150% rated output power Protection type : Hiccup mode, recovers automatically after fault condition is removed				
ENVIRONMENT	OVER VOLTAGE	5.75 ~ 6.75V	13.8 ~ 16.2V	17.25 ~ 20.25V	27.6 ~ 32.4V	41.4 ~ 48.6V
	WORKING TEMP.	-30 ~ +75°C (Refer to "Derating Curve")				
SAFETY & EMC	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				
OTHERS	SAFETY STANDARDS	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				
	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, EN61000-3-3				
NOTE	EMC IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11, EN55024, light industry level, criteria A				
	MTBF	743.5Khrs min. MIL-HDBK-217F (25°C)				
	DIMENSION	148*40*30mm (L*W*H)				
NOTE	PACKING	0.34Kg; 40pcs/14.6Kg/0.63CUFT				
	<p>1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.                  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.                  3. Tolerance : includes set up tolerance, line regulation and load regulation.                  4. Derating may be needed under low input voltage. Please check the static characteristics for more details.                  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.                  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.                  7. LPV-35-5 can provide 6A of output current continuously. Based on the requirement of UL1310 class 2, the output current is only certified up to 5A for the test report of LPV-35-5.                  8. In the European market this power supply can be used for LED lighting applications with input power up to 25W.                  9. Suitable for indoor use or outdoor use without direct sunlight exposure. Please avoid immerse in the water over 30 minute.</p>					

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### Mechanical Specification

Case No.975A Unit:mm

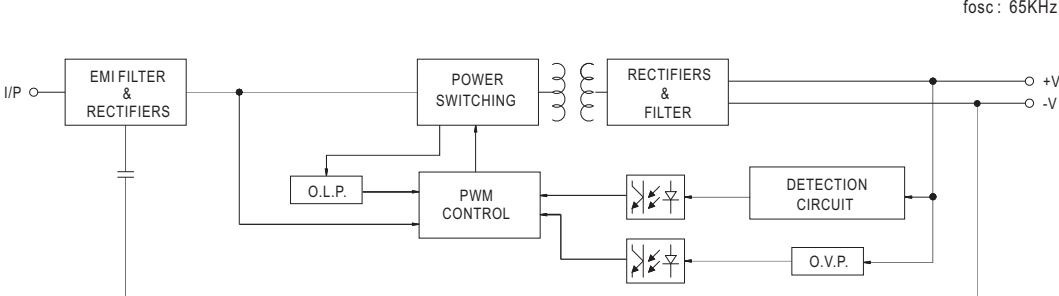


600±30 148 600±30  
UL1015 18AWG UL1007 16AWG  
AC/N(Blue) AC/L(Brown) T case 26.5 18 3.5 3.5 3.5 3.5 3.5 3.5  
+V(Red) -V(Black)  
※ T case: Max. Case Temperature.

### Recommend Mounting Direction



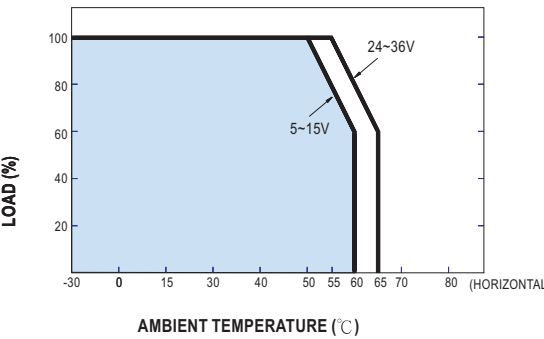
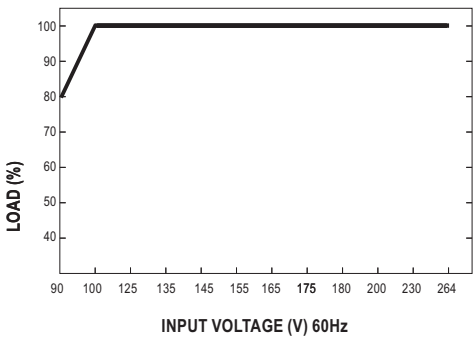
### Block Diagram



fosc : 65KHz  
I/P O EMI FILTER & RECTIFIERS POWER SWITCHING RECTIFIERS & FILTER +V -V  
O.L.P. PWM CONTROL DETECTION CIRCUIT O.V.P.

### Derating Curve

### Static Characteristics

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