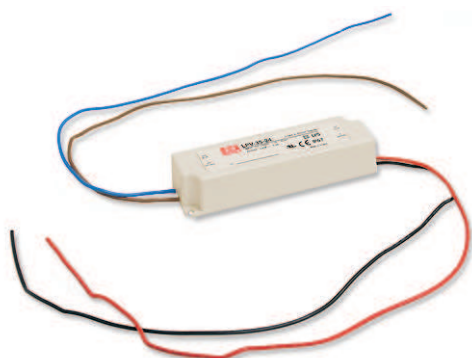




35W Single Output Switching Power Supply

LPV-35 series



■ Features :

- Constant voltage design
- Universal AC input / Full range
- Fully encapsulated with IP67 level (Note.9)
- Withstand 300VAC surge input for 5 seconds
- Protections: Short circuit / Overload / Over voltage
- Fully isolated plastic case
- Cooling by free air convection
- UL1310 Class 2 power unit
- Pass LPS
- 100% full load burn-in test
- Low cost, high reliability
- Suitable for LED lighting and moving sign applications (Note.8)
- 2 years warranty

LPS IP67

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%                             |                |              |              |
|                     | 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   |                                   |                |              |              |
| INPUT               | VOLTAGE RANGE Note.4         | 90 ~ 264VAC  | 127 ~ 370VDC                      |                |              |              |
|                     | FREQUENCY RANGE              | 47 ~ 63Hz  |                                   |                |              |              |
|                     | EFFICIENCY (Typ.)            | 77%  | 84%                               | 84%            | 85%          | 85%          |
|                     | AC CURRENT                   | 1.1A/115VAC 0.7A/230VAC  |                                   |                |              |              |
|                     | INRUSH CURRENT(max.)         | COLD START 30A/115VAC 60A/230VAC   |                                   |                |              |              |
| LEAKAGE CURRENT     | 0.25mA / 240VAC              |  |                                   |                |              |              |
| PROTECTION          | OVER CURRENT                 | 110 ~ 150% rated output power<br>Protection type : Hiccup mode, recovers automatically 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 |
| ENVIRONMENT         | WORKING TEMP.                | -30 ~ +75°C (Refer to output load 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             | 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  |                                   |                |              |              |
|                     | EMI CONDUCTION & RADIATION   | Compliance to EN55022 (CISPR22) Class B  |                                   |                |              |              |
|                     | HARMONIC CURRENT             | Compliance to EN61000-3-2 Class A, EN61000-3-3   |                                   |                |              |              |
| OTHERS              | EMS IMMUNITY                 | Compliance to EN61000-4-2,3,4,5,6,8,11; ENV50204, 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  |                                   |                |              |              |
|                     |                              | 1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.<br>2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.<br>3. Tolerance : includes set up tolerance, line regulation and load regulation.<br>4. Derating may be needed under low input voltage. Please check the static characteristics for more details.<br>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.<br>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.<br>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.<br>8. In the European market this power supply can be used for LED lighting applications with input power up to 25W.<br>9. Suitable for indoor use or outdoor use without direct sunlight exposure. Please avoid immerse in the water over 30 minute. |                                   |                |              |              |

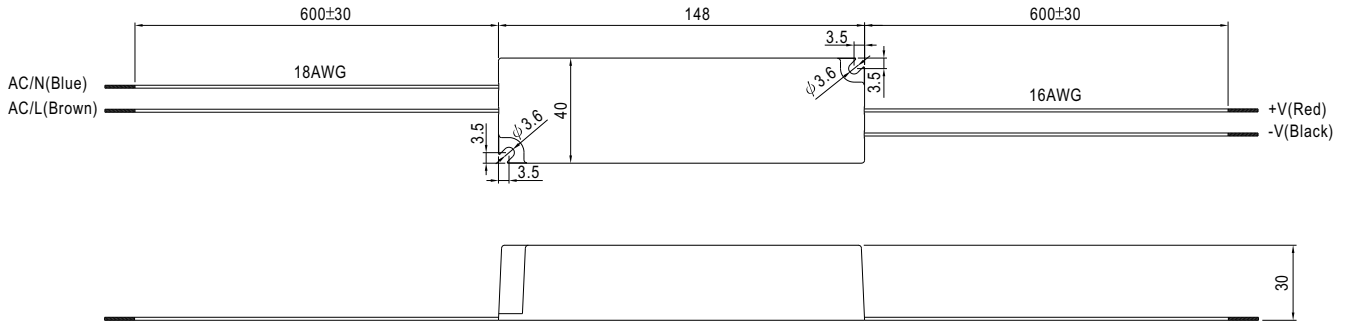


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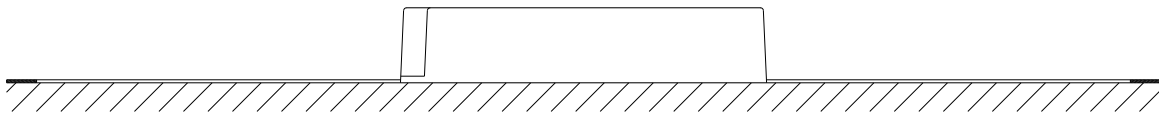
**LPV-35 series**

■ Mechanical Specification

Case No.975A Unit:mm

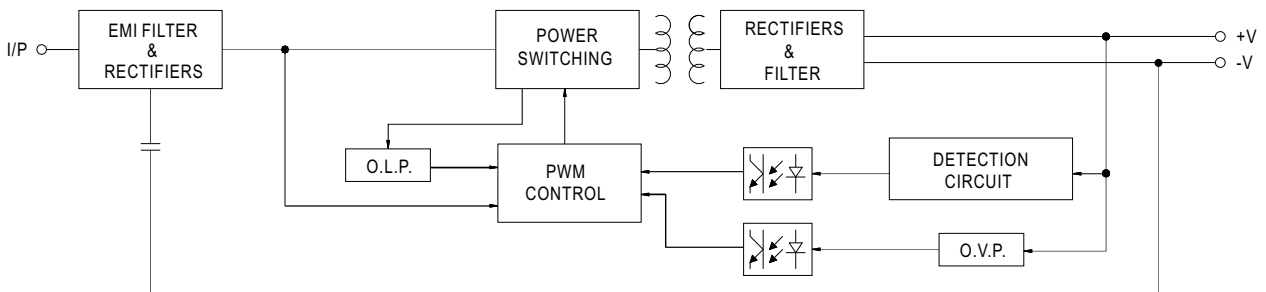


■ Recommend Mounting Direction

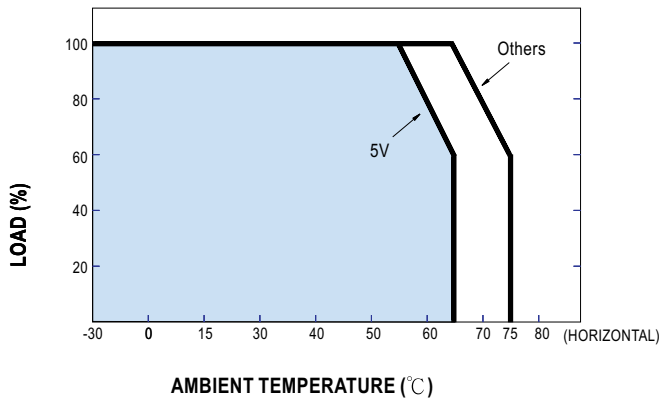


■ Block Diagram

fosc : 65KHz



■ Derating Curve



■ Static Characteristics

