



■ Features :

- Constant voltage design
- Universal AC input / Full range
- Withstand 300VAC surge input for 5 seconds
- Protections: Short circuit / Over load / Over voltage
- Cooling by free air convection
- Fully encapsulated with IP67 level (Note.8)
- Fully isolated plastic case
- Class II power unit, no FG
- Class 2 power unit
- Pass LPS
- Suitable for LED lighting and moving sign applications (Note.7)
- 100% full load burn-in test
- Low cost, high reliability
- 2 years warranty



SPECIFICATION

| MODEL               | LPV-60-5                     | LPV-60-12   | LPV-60-15                                      | LPV-60-24            | LPV-60-36                                  | LPV-60-48    |              |
|---------------------|------------------------------|---|--|----------------------|--|--------------|--------------|
| OUTPUT              | DC VOLTAGE                   | 5V  | 12V  | 15V                  | 24V  | 36V          | 48V          |
|                     | RATED CURRENT                | 8A  | 5A   | 4A                   | 2.5A                                       | 1.67A        | 1.25A        |
|                     | CURRENT RANGE                | 0 ~ 8A  | 0 ~ 5A   | 0 ~ 4A               | 0 ~ 2.5A                                   | 0 ~ 1.67A    | 0 ~ 1.25A    |
|                     | RATED POWER                  | 40W   | 60W  | 60W                  | 60W  | 60W          | 60W          |
|                     | RIPPLE & NOISE (max.) Note.2 | 80mVp-p   | 120mVp-p                                       | 120mVp-p             | 150mVp-p                                   | 150mVp-p     | 150mVp-p     |
|                     | VOLTAGE TOLERANCE Note.3     | ±8.0%   | ±5.0%  |                      |  |              |              |
|                     | LINE REGULATION              | ±1.0%   |  |                      |  |              |              |
|                     | LOAD REGULATION              | ±6.0%   | ±2.0%  |                      |  |              |              |
|                     | SETUP, RISE TIME Note.6      | 500ms, 20ms / 230VAC  | 500ms, 20ms / 115VAC at full load(for 5~36V) ; | 500ms, 30ms / 230VAC | 500ms, 30ms / 115VAC at full load(for 48V) |              |              |
| 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.)            | 76%   | 83%  | 83%                  | 86%  | 86%          | 86%          |
|                     | AC CURRENT (Typ.)            | 1.2A/115VAC   | 1A/230VAC                                      |                      |  |              |              |
|                     | INRUSH CURRENT(Typ.)         | COLD START 60A(twidth=525µs measured at 50% Ipeak) at 230VAC  |  |                      |  |              |              |
|                     | LEAKAGE CURRENT              | 0.25mA / 240VAC   |  |                      |  |              |              |
| PROTECTION          | OVER LOAD                    | 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 | 55.2 ~ 64.8V |
| ENVIRONMENT         | WORKING TEMP.                | -30 ~ +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             | UL879(except for LPV-60-5), UL1310(except for LPV-60-5), CSA C22.2 No. 207-M89(except for LPV-60-5, LPV-60-48), CAN/CSA C22.2 No. 223-M91(except for LPV-60-5, LPV-60-48), IP67, IEC60950-1:2005+A2:2013 approved ; design refer to TUV EN60950-1   |  |                      |  |              |              |
|                     | 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, EN61000-3-3   |  |                      |  |              |              |
| OTHERS              | EMC IMMUNITY                 | Compliance to EN61000-4-2,3,4,5,6,8,11, EN55024, light industry level, criteria A   |  |                      |  |              |              |
|                     | MTBF                         | 732Khrs min. MIL-HDBK-217F (25°C)   |  |                      |  |              |              |
|                     | DIMENSION                    | 162.5*42.5*32mm (L*W*H)   |  |                      |  |              |              |
| NOTE                | PACKING                      | 0.4Kg; 32pcs/13.8Kg/0.56CUFT  |  |                      |  |              |              |
|                     |                              | <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 0.1µf &amp; 47µf 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. The unit might not be suitable for lighting applications in EU countries. Please check with your local authorities for the possible use of the unit.</li> <li>8. Suitable for indoor use or outdoor use without direct sunlight exposure. Please avoid immerse in the water over 30 minute.</li> </ol> |  |                      |  |              |              |

