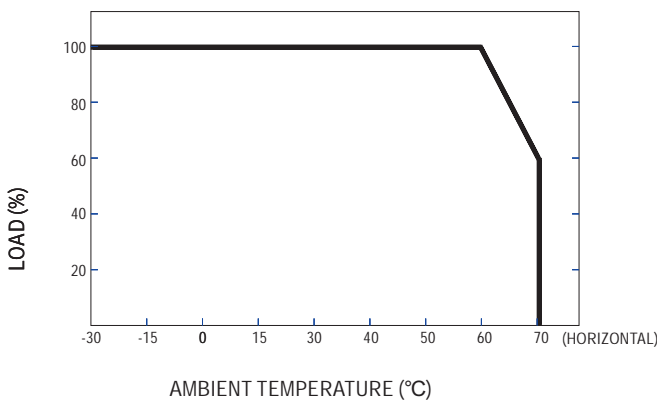


**SPECIFICATION**

| MODEL               | LPV-20-5E   | LPV-20-12E  | LPV-20-15E   | LPV-20-24E |           |
|---------------------|---|---|--------------|------------|-----------|
| OUTPUT              | DC VOLTAGE  | 5V  | 12V          | 15V        | 24V       |
|                     | RATED CURRENT   | 3A  | 1.67A        | 1.33A      | 0.84A     |
|                     | CURRENT RANGE   | 0 ~ 3A  | 0 ~ 1.67A    | 0 ~ 1.33A  | 0 ~ 0.84A |
|                     | RATED POWER   | 15W   | 20W          | 20W        | 20.2W     |
|                     | RIPPLE & NOISE (max.) Note.2  | 80mVp-p   | 120mVp-p     | 120mVp-p   | 150mVp-p  |
|                     | VOLTAGE TOLERANCE Note.3  | ±5.0%   |              |            |           |
|                     | LINE REGULATION   | ±1.0%   |              |            |           |
|                     | LOAD REGULATION   | ±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%   | 81%          | 83%        | 83%       |
|                     | AC CURRENT (Typ.)   | 0.55A/115VAC 0.35A/230VAC   |              |            |           |
|                     | INRUSH CURRENT(Typ.)  | COLD START 70A(twidth=215µs measured at 50% Ipeak) at 230VAC  |              |            |           |
|                     | MAX. No. of PSUs on 16A CIRCUIT BREAKER   | 8 units (circuit breaker of type B) / 14 units (circuit breaker of type C) 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 ~ 16V   | 17.5 ~ 21V | 28 ~ 32V  |
| 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  | TUV EN60950-1,IP67 approved   |              |            |           |
|                     | WITHSTAND VOLTAGE   | I/P-O/P:1.5KVAC   |              |            |           |
|                     | 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 EN55024, light industry level, criteria A   |              |            |           |
|                     | MTBF  | 786.5Khrs min. MIL-HDBK-217F (25°C)   |              |            |           |
|                     | DIMENSION   | 118*35*26mm (L*W*H)   |              |            |           |
| NOTE                | PACKING   | 0.22Kg; 60pcs/14.2Kg/0.62CUFT   |              |            |           |
|                     | 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. Suitable for indoor use or outdoor use without direct sunlight exposure. Please avoid immerse in the water over 30 minute.<br>8. 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. |   |              |            |           |

**Derating Curve**



**Static Characteristics**

