



■ Features :

- Constant voltage mode power supply
- Universal AC input / Full range
- Withstand 300VAC Surge input for 5 seconds
- Protections: Short circuit / Over load / Over voltage
- Fully isolated plastic case
- Cooling by free air convection
- Small and compact size
- IP30 design
- Pass LPS
- 100% full load burn-in test
- Low cost, high reliability
- Suitable for LED lighting and moving sign applications
- 2 years warranty

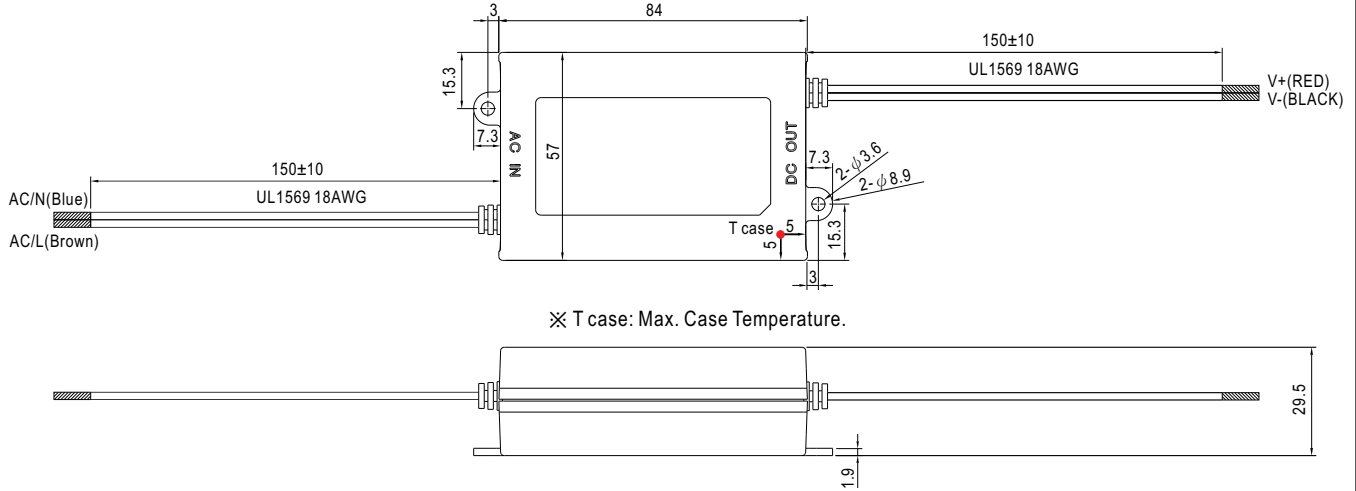


**SPECIFICATION**

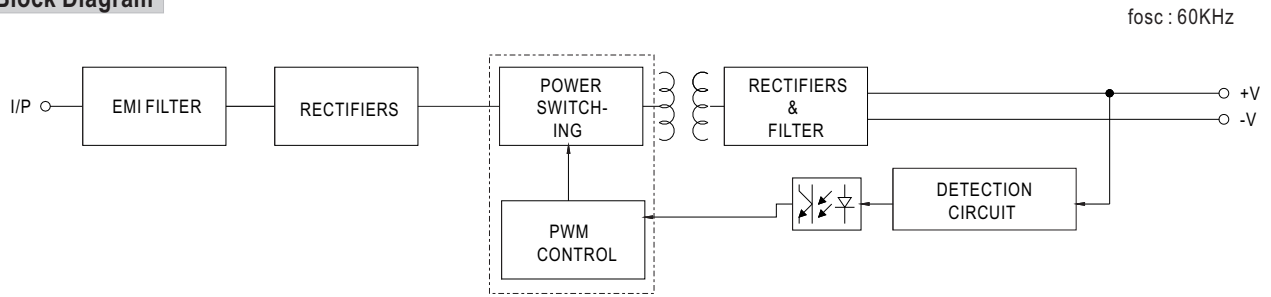
| MODEL               |   | APV-25-5  | APV-25-12    | APV-25-15                         | APV-25-24  | APV-25-36    |
|---------------------|---|---|--------------|-----------------------------------|------------|--------------|
| OUTPUT              | DC VOLTAGE  | 5V  | 12V          | 15V                               | 24V        | 36V          |
|                     | RATED CURRENT   | 3.5A  | 2.1A         | 1.68A                             | 1.05A      | 0.7A         |
|                     | CURRENT RANGE   | 0 ~ 3.5A  | 0 ~ 2.1A     | 0 ~ 1.68A                         | 0 ~ 1.05A  | 0 ~ 0.7A     |
|                     | RATED POWER   | 17.5W   | 25.2W        | 25.2W                             | 25.2W      | 25.2W        |
|                     | RIPPLE & NOISE (max.) Note.2  | 120mVp-p  | 150mVp-p     | 150mVp-p                          | 150mVp-p   | 150mVp-p     |
|                     | VOLTAGE TOLERANCE Note.3  | ±5.0%   |              |                                   |            |              |
|                     | LINE REGULATION   | ±1.0%   |              |                                   |            |              |
|                     | LOAD REGULATION   | ±2.0%   |              |                                   |            |              |
|                     | SETUP, RISE TIME Note.6   | 1500ms, 30ms / 230VAC   |              | 1500ms,30ms / 115VAC at full load |            |              |
| HOLD UP TIME (Typ.) | 20ms/230VAC   | 12ms/115VAC at full load  |              |                                   |            |              |
| INPUT               | VOLTAGE RANGE Note.4  | 90 ~ 264VAC   | 127 ~ 370VDC |                                   |            |              |
|                     | FREQUENCY RANGE   | 47 ~ 63Hz   |              |                                   |            |              |
|                     | EFFICIENCY (Typ.)   | 75.5%   | 82%          | 83%                               | 83%        | 84%          |
|                     | AC CURRENT  | 0.4A/230VAC   |              | 0.8A/115VAC                       |            |              |
|                     | INRUSH CURRENT(Typ.)  | COLD START 45A(width=310µs measured at 50% Ipeak) at 230VAC   |              |                                   |            |              |
| LEAKAGE CURRENT     | 0.25mA / 240VAC   |   |              |                                   |            |              |
| PROTECTION          | OVER LOAD   | Above 105% rated output power<br>Protection type : Hiccup mode, recovers automatically after fault condition is removed |              |                                   |            |              |
|                     | OVER VOLTAGE  | 5.75 ~ 6.95V  | 13.8 ~ 16.2V | 17.25 ~ 21V                       | 27 ~ 32.4V | 41.4 ~ 48.6V |
| 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  | UL8750 , CSA-C22.2 No. 250.0-13 approved; design refer to 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,EN61000-3-2 Class A,EN61000-3-3   |              |                                   |            |              |
|                     | EMC IMMUNITY  | Compliance to EN55024,EN61000-4-2,3,4,5,6,8,11; light industry level(surge 2KV), criteria A                             |              |                                   |            |              |
| OTHERS              | MTBF  | 692.8K hrs min. MIL-HDBK-217F (25°C)  |              |                                   |            |              |
|                     | DIMENSION   | 84*57*29.5mm (L*W*H)  |              |                                   |            |              |
|                     | PACKING   | 0.13Kg; 72pcs / 10.4Kg / 0.92CUFT   |              |                                   |            |              |
| 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.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> </ol> |   |              |                                   |            |              |

### Mechanical Specification

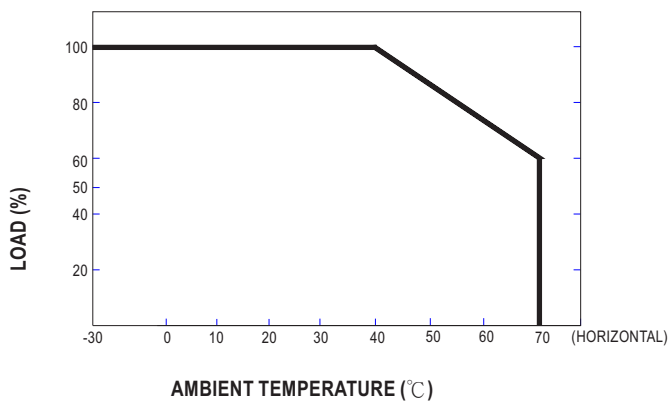
Case No.PCD16A Unit:mm



### Block Diagram



### Derating Curve



### Static Characteristics

