



### ■ 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
- IP42 design
- Class 2 power unit
- Pass LPS
- 100% full load burn-in test
- Low cost, high reliability
- Suitable for LED lighting and moving sign applications
- 2 years warranty

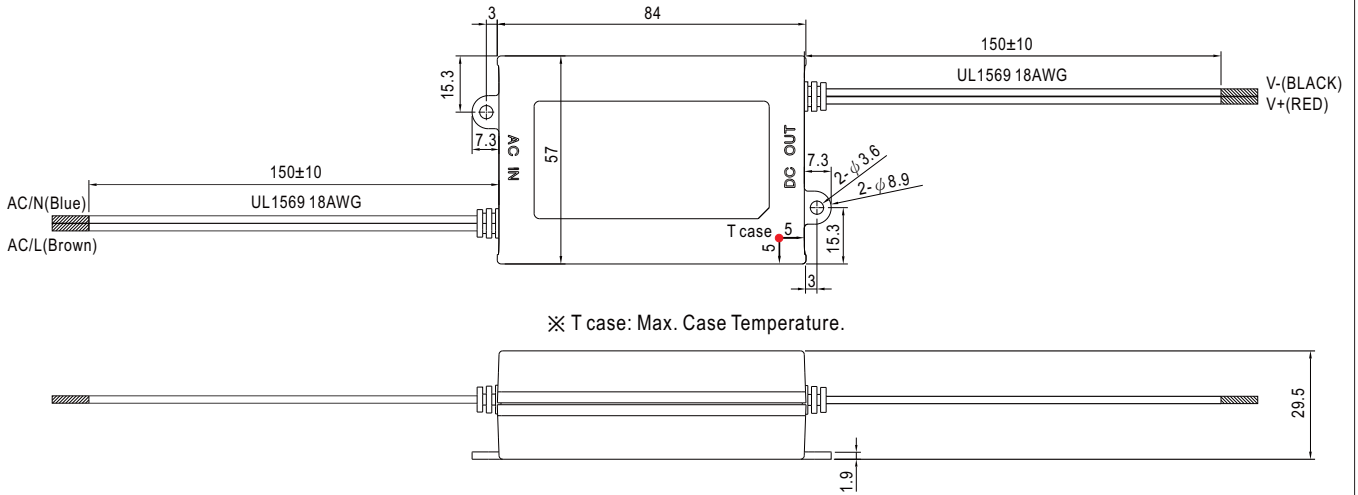


### SPECIFICATION

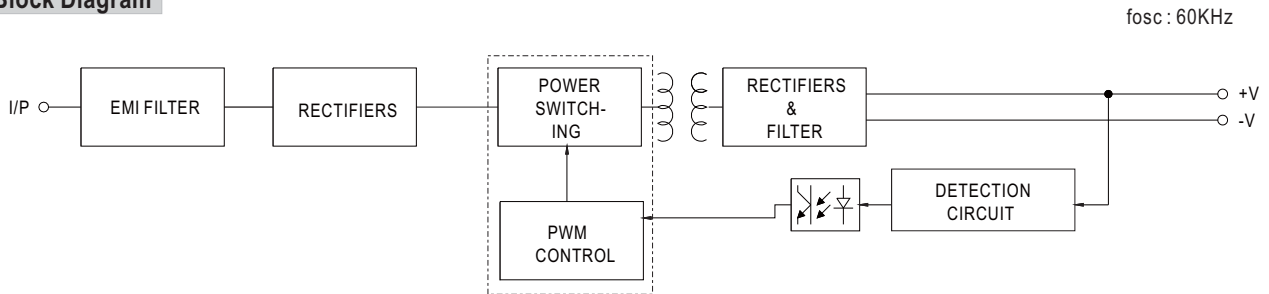
| MODEL   |   | APV-35-5   | APV-35-12                | APV-35-15                          | APV-35-24  | APV-35-36    |
|---|---|--|--------------------------|------------------------------------|------------|--------------|
| OUTPUT  | DC VOLTAGE                              | 5V   | 12V                      | 15V                                | 24V        | 36V          |
|   | RATED CURRENT                           | 5A   | 3A                       | 2.4A                               | 1.5A       | 1A           |
|   | CURRENT RANGE                           | 0 ~ 5A   | 0 ~ 3A                   | 0 ~ 2.4A                           | 0 ~ 1.5A   | 0 ~ 1A       |
|   | RATED POWER                             | 25W  | 36W                      | 36W                                | 36W        | 36W          |
|   | RIPPLE & NOISE (max.) Note.2            | 120mVp-p   | 150mVp-p                 | 150mVp-p                           | 180mVp-p   | 180mVp-p     |
|   | VOLTAGE TOLERANCE Note.3                | ±5.0%  |                          |                                    |            |              |
|   | LINE REGULATION                         | ±1.0%  |                          |                                    |            |              |
|   | LOAD REGULATION                         | ±2.0%  |                          |                                    |            |              |
| INPUT   | SETUP, RISE TIME Note.6                 | 1500ms, 40ms / 230VAC  |                          | 1500ms, 40ms / 115VAC at full load |            |              |
|   | HOLD UP TIME (Typ.)                     | 20ms/230VAC  | 12ms/115VAC at full load |                                    |            |              |
|   | VOLTAGE RANGE Note.4                    | 90 ~ 264VAC  | 127 ~ 370VDC             |                                    |            |              |
|   | FREQUENCY RANGE                         | 47 ~ 63Hz  |                          |                                    |            |              |
|   | EFFICIENCY (Typ.)                       | 76.5%  | 83%                      | 84%                                | 84%        | 85%          |
|   | AC CURRENT                              | 0.5A/230VAC 0.75A/115VAC   |                          |                                    |            |              |
| PROTECTION  | INRUSH CURRENT(Typ.)                    | COLD START 45A(twidth=440µs measured at 50% Ipeak) at 230VAC   |                          |                                    |            |              |
|   | MAX. No. of PSUs on 16A CIRCUIT BREAKER | 6 units (circuit breaker of type B) / 10 units (circuit breaker of type C) at 230VAC                                   |                          |                                    |            |              |
|   | LEAKAGE CURRENT                         | 0.25mA / 240VAC  |                          |                                    |            |              |
|   | OVER LOAD                               | 110%~160% rated output power<br>Protection type : Hiccup mode, recovers automatically after fault condition is removed |                          |                                    |            |              |
| ENVIRONMENT   | OVER VOLTAGE                            | 5.75 ~ 6.95V   | 13.8 ~ 16.2V             | 17.25 ~ 21V                        | 27 ~ 32.4V | 41.4 ~ 48.6V |
|   |   | Protection type : Shut down o/p voltage, re-power on to recover  |                          |                                    |            |              |
| SAFETY & EMC  | 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  |                          |                                    |            |              |
| OTHERS  | SAFETY STANDARDS                        | UL8750 , CSA-C22.2 No. 250.0-13, IP42 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  |                          |                                    |            |              |
| NOTE  | EMC IMMUNITY                            | Compliance to EN55024, EN61000-4-2, 3, 4, 5, 6, 8, 11; light industry level (surge 2KV), criteria A                    |                          |                                    |            |              |
|   | MTBF                                    | 692.8K hrs min. MIL-HDBK-217F (25°C)   |                          |                                    |            |              |
|   | DIMENSION                               | 84*57*29.5mm (L*W*H)   |                          |                                    |            |              |
|   | PACKING                                 | 0.18Kg; 72pcs / 14Kg/ 0.92CUFT   |                          |                                    |            |              |
| <p>1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.<br/>                 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.<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. 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.</p> |   |  |                          |                                    |            |              |

■ Mechanical Specification

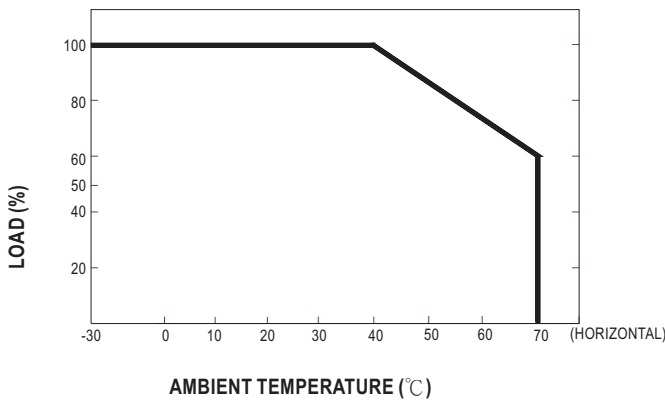
Case No.PCD16A Unit:mm



■ Block Diagram



■ Derating Curve



■ Static Characteristics

