



### ■ Features :

- Constant current mode power supply
- Universal AC input / Full range
- Withstand 300VAC Surge input for 5 seconds
- Protections: Short circuit / Over voltage
- Fully isolated plastic case
- Small and compact size
- Cooling by free air convection
- IP42 design
- 100% full load burn-in test
- Suitable for LED related fixture or appliance (such as LED Decoration or Advertisement devices)
- Low cost / High reliability
- 2 years warranty

IS 15885(Part 2/Sec13)



R-41027766



(only for APC-35-700)



(only for APC-35-1050)

**IP42 LPS** (except for APC-35-350, APC-35-500)

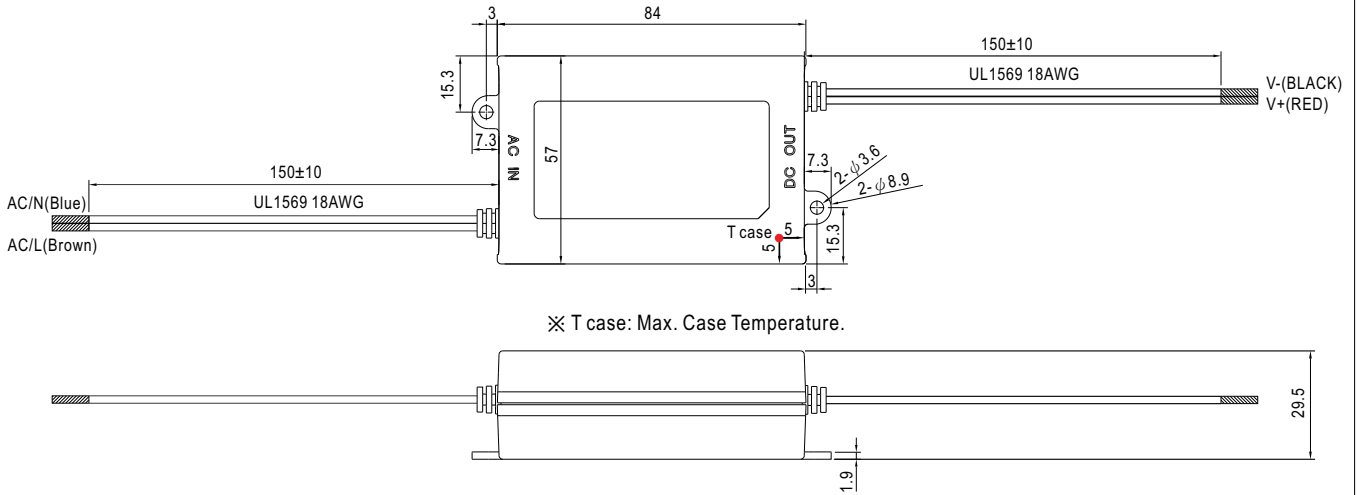


### SPECIFICATION

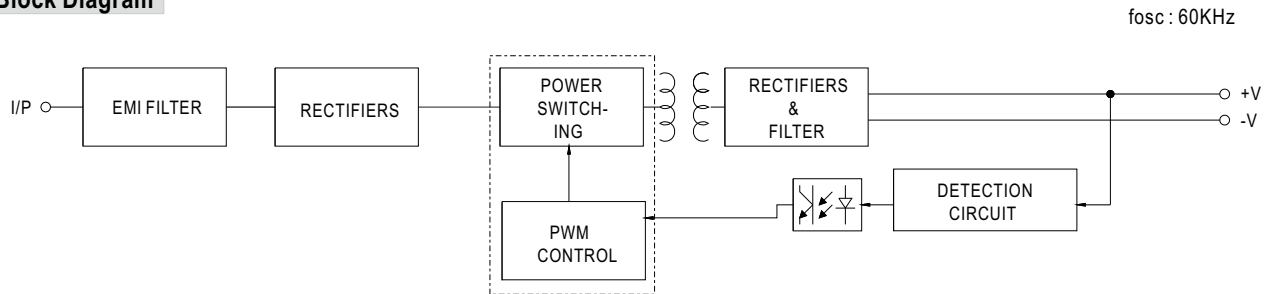
| MODEL                 | APC-35-350  | APC-35-500   | APC-35-700                         | APC-35-1050 |          |
|-----------------------|---|--|------------------------------------|-------------|----------|
| OUTPUT                | RATED CURRENT   | 350mA  | 500mA                              | 700mA       | 1050mA   |
|                       | DC VOLTAGE RANGE  | 28~100V  | 25~70V                             | 15~50V      | 11~33V   |
|                       | RATED POWER   | 35W  | 35W                                | 35W         | 34.7W    |
|                       | RIPPLE & NOISE (max.) Note.2  | 350mVp-p   | 350mVp-p                           | 350mVp-p    | 350mVp-p |
|                       | VOLTAGE TOLERANCE Note.3  | ±5.0%  |                                    |             |          |
|                       | CURRENT ACCURACY  | ±8.0%  |                                    |             |          |
|                       | LINE REGULATION   | ±1.0%  |                                    |             |          |
|                       | LOAD REGULATION   | ±3.0%  |                                    |             |          |
|                       | SETUP, RISE TIME  | 1500ms, 40ms / 230VAC  | 1500ms, 40ms / 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.)  | 84%  | 84%                                | 84%         | 84%      |
|                       | AC CURRENT  | 0.5A/230VAC; 0.75A/115VAC  |                                    |             |          |
|                       | INRUSH CURRENT(Typ.)  | COLD START 45A(twidth=490µs measured at 50% Ipeak) at 230VAC   |                                    |             |          |
|                       | MAX. No. of PSUs on 16A CIRCUIT BREAKER   | 5 units (circuit breaker of type B) / 9 units (circuit breaker of type C) at 230VAC  |                                    |             |          |
| LEAKAGE CURRENT       | 0.25mA / 240VAC   |  |                                    |             |          |
| PROTECTION            | OVER VOLTAGE  | 110 ~ 130V   | 77 ~ 91V                           | 55 ~ 65V    | 36 ~ 43V |
|                       |   | Protection type : Shut down o/p voltage, re-power on to recover  |                                    |             |          |
| 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   | ±0.2%/°C (0 ~ 50°C)  |                                    |             |          |
|                       | VIBRATION   | 10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes  |                                    |             |          |
| SAFETY & EMC (Note 5) | SAFETY STANDARDS  | UL8750 (only for APC-35-700&1050), CSA-C22.2 No. 250.0-13 (only for APC-35-1050), 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 EN55032, 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  | 518.9K hrs min. MIL-HDBK-217F (25°C)   |                                    |             |          |
|                       | DIMENSION   | 84*57*29.5(L*W*H)  |                                    |             |          |
|                       | PACKING   | 0.18Kg; 72pcs/14Kg/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 0.1µf &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 characteristic 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. 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**

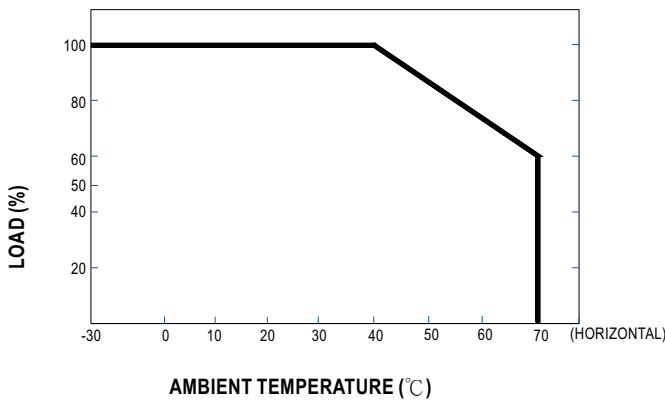
Case No.PCD16A Unit:mm



**Block Diagram**



**Derating Curve**



**Static Characteristics**

