



■ Features :

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

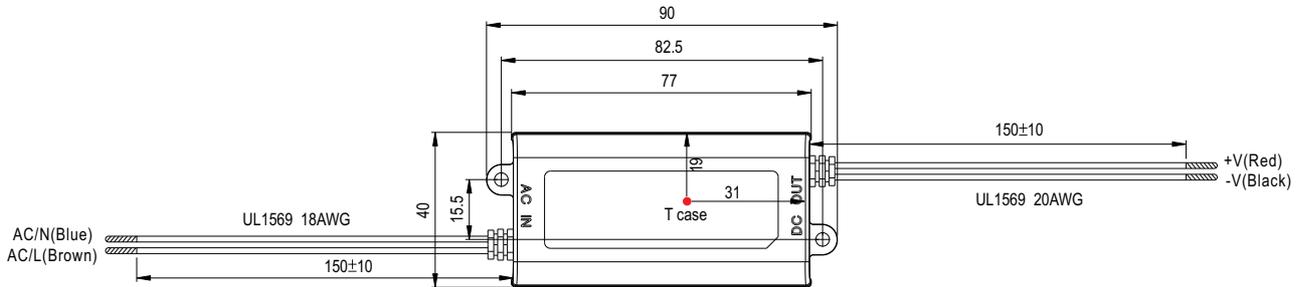


SPECIFICATION

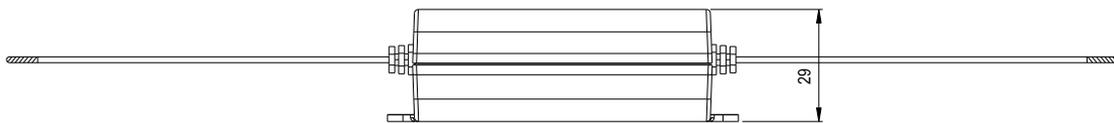
| MODEL                 |   | APC-16-350  | APC-16-700  |
|-----------------------|---|---|-------------|
| OUTPUT                | RATED CURRENT   | 350mA   | 700mA       |
|                       | DC VOLTAGE RANGE  | 12~48V  | 9~24V       |
|                       | RATED POWER   | 16.8W   | 16.8W       |
|                       | RIPPLE & NOISE (max.) Note.2  | 300mVp-p  | 250mVp-p    |
|                       | VOLTAGE TOLERANCE Note.3  | ±5.0%   |             |
|                       | CURRENT ACCURACY  | ±5.0%   |             |
|                       | LINE REGULATION   | ±1.0%   |             |
|                       | LOAD REGULATION   | ±3.0%   |             |
|                       | SETUP, RISE TIME  | 3000ms, 200ms / 230VAC    3000ms, 200ms / 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%   | 83%         |
|                       | AC CURRENT  | 0.3A/230VAC;0.5A/115VAC   |             |
|                       | INRUSH CURRENT(max.)  | Cold start 35A/115VAC,70A/230VAC  |             |
|                       | LEAKAGE CURRENT   | 0.25mA / 240VAC   |             |
| PROTECTION            | OVER VOLTAGE  | 50.4~ 60V   | 27.6~ 33.5V |
|                       |   | Protection type : Shut off o/p voltage, clamping by zener diode                             |             |
| 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  | Design refer to TUV EN60950-1, EN61347-2-13, UL8750   |             |
|                       | WITHSTAND VOLTAGE   | I/P-O/P:3.75KVAC  |             |
|                       | ISOLATION RESISTANCE  | I/P-O/P:>100M Ohms / 500VDC / 25°C / 70% RH   |             |
|                       | EMC EMISSION  | Compliance to EN55015,EN61000-3-2 Class A,EN61000-3-3                                       |             |
|                       | EMC IMMUNITY  | Compliance to EN61547,EN61000-4-2,3,4,5,6,8,11; light industry level(surge 2KV), criteria A |             |
| OTHERS                | MTBF  | 1145.7K hrs min.    MIL-HDBK-217F (25)  |             |
|                       | DIMENSION   | 77*40*29(L*W*H)   |             |
|                       | PACKING   | 0.1Kg; 120pcs/14Kg/0.93CUFT   |             |
| NOTE                  | <p>1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.</p> <p>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.</p> <p>3. Tolerance : includes set up tolerance, line regulation and load regulation.</p> <p>4. Derating may be needed under low input voltage. Please check the static characteristic for more details.</p> <p>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.</p> |   |             |

### Mechanical Specification

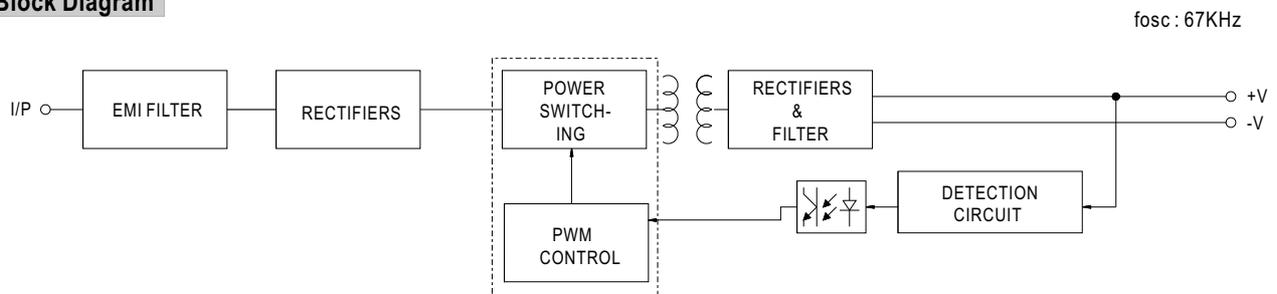
Unit:mm



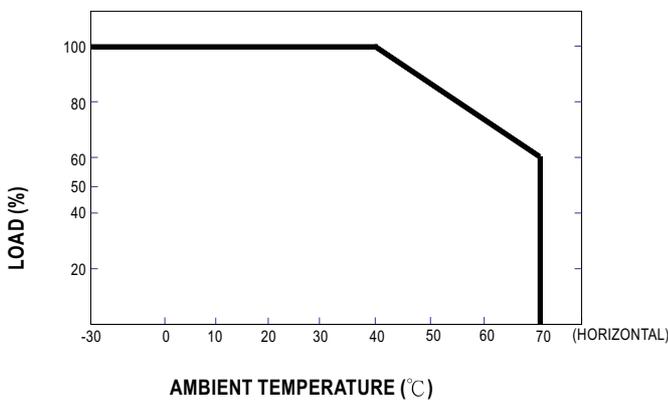
※ T case: Max. Case Temperature



### Block Diagram



### Derating Curve



### Static Characteristics

