



■ Features :

- Constant current design
- Universal AC input / Full range
- Protections: Short circuit / Over voltage
- Fully isolated plastic case
- Small and compact size
- Cooling by free air convection
- Class II power unit, no FG
- Class 2 power unit
- Pass LPS
- IP30 design
- Suitable for LED lighting and moving sign applications
- 100% full load burn-in test
- Low cost / High reliability
- 2 years warranty

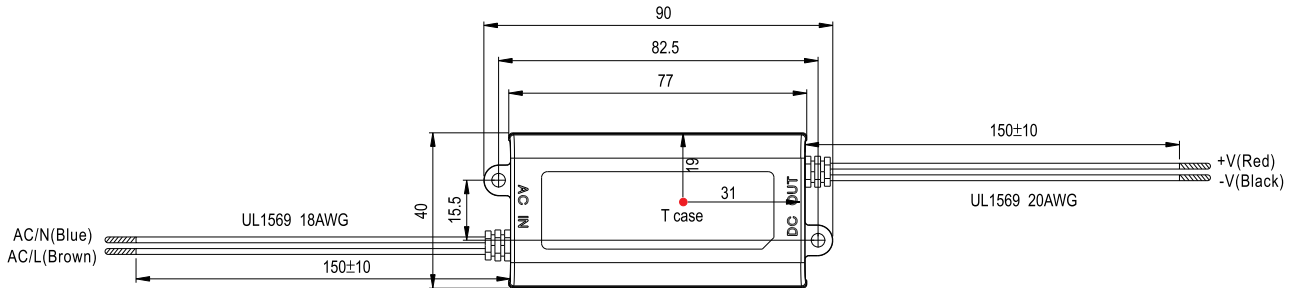


SPECIFICATION

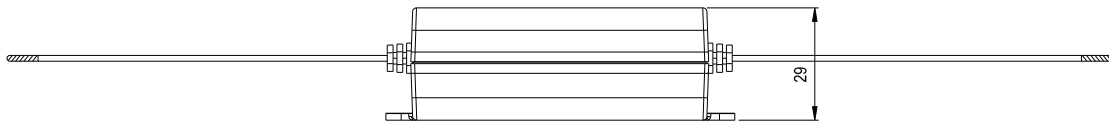
| MODEL | | APC-12-350 | APC-12-700 |
|-----------------------|--|---|-------------------------------------|
| OUTPUT | RATED CURRENT | 350mA | 700mA |
| | DC VOLTAGE RANGE | 9~36V | 9~18V |
| | RATED POWER | 12.6W | 12.6W |
| | RIPPLE & NOISE (max.) Note.2 | 300mVp-p | 250mVp-p |
| | VOLTAGE TOLERANCE Note.3 | ±5.0% | |
| | CURRENT ACCURACY | ±8.0% | |
| | LINE REGULATION | ±1.0% | |
| | LOAD REGULATION | ±3.0% | |
| | SETUP, RISE TIME | 3000ms, 180ms / 230VAC | 3000ms, 150ms / 115VAC at full load |
| | HOLD UP TIME (Typ.) | 20ms/230VAC, 15ms/115VAC at full load | |
| INPUT | VOLTAGE RANGE Note.4 | 90 ~ 264VAC | 127 ~ 370VDC |
| | FREQUENCY RANGE | 47 ~ 63Hz | |
| | EFFICIENCY(Typ.) | 82% | 80% |
| | AC CURRENT | 0.2A/230VAC; 0.35A/115VAC | |
| | INRUSH CURRENT(max.) | Cold start 35A/115VAC, 70A/230VAC | |
| | LEAKAGE CURRENT | 0.25mA / 240VAC | |
| PROTECTION | OVER VOLTAGE | 39.6~ 46.8V | 20.7~ 24.3V |
| | | 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 | UL8750, CSA C22.2 No.250.0-08 approved, Design refer to TUV EN60950-1 | |
| | 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 | |
| OTHERS | EMC IMMUNITY | Compliance to EN61547, EN61000-4-2, 3, 4, 5, 6, 8, 11; light industry level (surge 2KV), criteria A | |
| | MTBF | 1145.7K hrs min. MIL-HDBK-217F (25°C) | |
| | DIMENSION | 77*40*29(L*W*H) | |
| NOTE | PACKING | 0.08Kg; 120pcs/11.8Kg/0.93CUFT | |
| | <p>1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.</p> <p>2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 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> <p>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.</p> | | |

■ Mechanical Specification

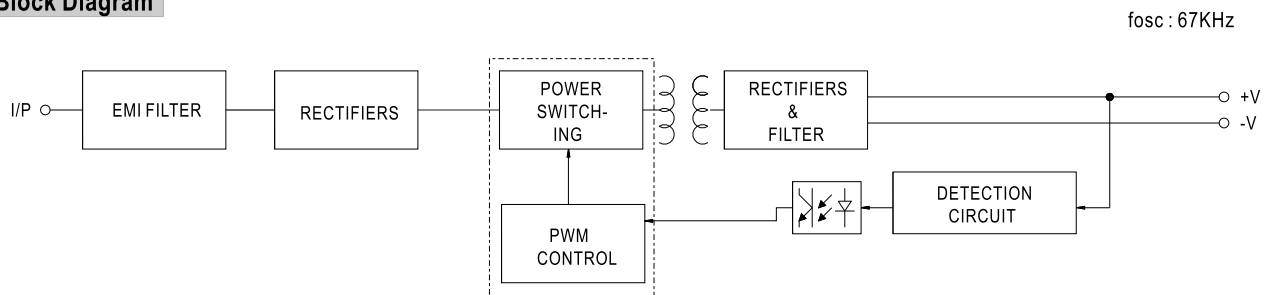
Unit:mm



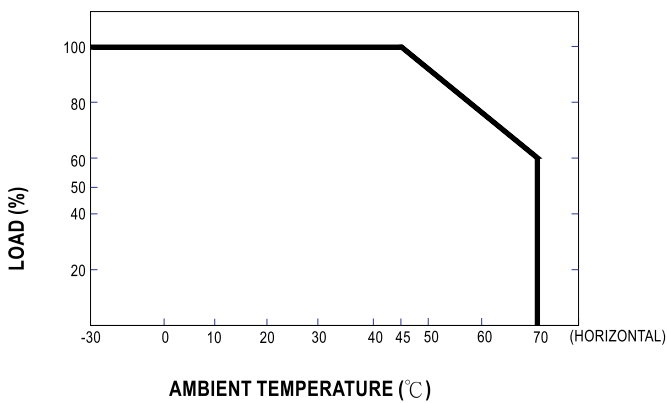
※ T case: Max. Case Temperature



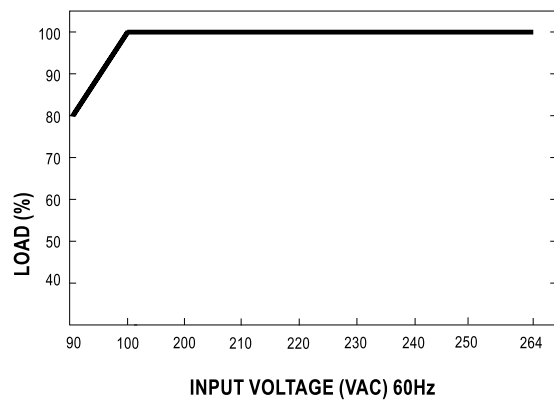
■ Block Diagram



■ Derating Curve



■ Static Characteristics



■ EFFICIENCY vs LOAD (APC-12-350)

Unit:mm

