



■ 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
- IP42 design
- Suitable for LED related fixture or appliance (such as LED Decoration or Advertisement devices)(Note.5)
- 100% full load burn-in test
- Low cost / High reliability
- 2 years warranty



■ GTIN CODE

MW Search: <https://www.meanwell.com/serviceGTIN.aspx>



IS 15885(Part 2/Sec13)  
R-41027766

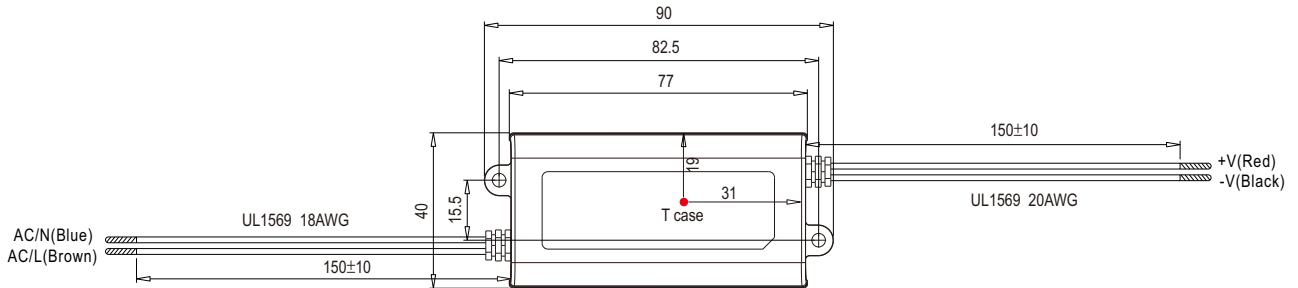


SPECIFICATION

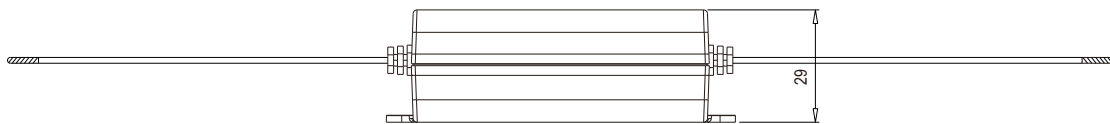
| MODEL  | APC-12-350  | APC-12-700   |                                     |
|--|---|--|-------------------------------------|
| OUTPUT   | RATED CURRENT   | 350mA  | 700mA                               |
|  | DC VOLTAGE RANGE  | 9~36V  | 9~18V                               |
|  | RATED POWER   | 12.6W  | 12.6W                               |
|  | VOLTAGE TOLERANCE <small>Note.2</small>                         | ±5.0%  |                                     |
|  | CURRENT ACCURACY  | ±8.0%  |                                     |
|  | 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 <small>Note.3</small>                             | 90 ~ 264VAC  | 127 ~ 370VDC                        |
|  | FREQUENCY RANGE   | 47 ~ 63Hz  |                                     |
|  | EFFICIENCY(Typ.)  | 82%  | 80%                                 |
|  | AC CURRENT  | 0.2A/230VAC; 0.35A/115VAC  |                                     |
|  | INRUSH CURRENT(Typ.)  | COLD START 70A(twidth=150µs measured at 50% Ipeak) at 230VAC   |                                     |
|  | MAX. No. of PSUs on 16A CIRCUIT BREAKER                         | 17 units (circuit breaker of type B) / 29 units (circuit breaker of type C) at 230VAC                              |                                     |
| PROTECTION   | LEAKAGE CURRENT   | 0.25mA / 240VAC  |                                     |
|  | OVER VOLTAGE  | 39.6~ 46.8V  | 20.7~ 24.3V                         |
| ENVIRONMENT  | Protection type : Shut off o/p voltage, clamping by zener diode |  |                                     |
|  | 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)  |                                     |
| SAFETY & EMC (Note 5)  | VIBRATION   | 10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes  |                                     |
|  | SAFETY STANDARDS <small>Note.6</small>                          | UL8750, CSA C22.2 No.250.0-08, BIS IS15885, EAC TP TC 004, BS EN/EN 62368-1 approved                               |                                     |
|  | WITHSTAND VOLTAGE   | I/P-O/P: 3.75KVAC  |                                     |
|  | ISOLATION RESISTANCE  | I/P-O/P: >100M Ohms / 500VDC / 25°C / 70% RH   |                                     |
| OTHERS   | EMC EMISSION  | Compliance to BS EN/EN55032, BS EN/EN61000-3-2, BS EN/EN61000-3-3, EAC TP TC 020                                   |                                     |
|  | EMC IMMUNITY  | Compliance to BS EN/EN55035, BS EN/EN61000-4-2, 3, 4, 5, 6, 8, 11; light industry level (surge 2KV), EAC TP TC 020 |                                     |
|  | MTBF  | 6418.1K hrs min. Telcordia SR-332 (Bellcore); 1097.4K hrs min. MIL-HDBK-217F (25°C)                                |                                     |
| NOTE   | DIMENSION   | 77*40*29(L*W*H)  |                                     |
|  | PACKING   | 0.08Kg; 120pcs/11.8Kg/1.06CUFT   |                                     |
| <p>1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.</p> <p>2. Tolerance : includes set up tolerance.</p> <p>3. Derating may be needed under low input voltage. Please check the static characteristic for more details. Please connect L line to the positive pole and N line to the negative pole under DC input.</p> <p>4. 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/>(as available on <a href="https://www.meanwell.com/Upload/PDF/EMI_statement_en.pdf">https://www.meanwell.com/Upload/PDF/EMI_statement_en.pdf</a>)</p> <p>5. This product is not intended for LED lighting luminaire applications EU and China.(In the EU and China the LPF/NPF/XLG/XLC/XLN series are recommended.)</p> <p>6. The ambient temperature derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500ft).</p> <p>7. For any application note and IP water proof function installation caution, please refer our user manual before using.<br/><a href="https://www.meanwell.com/Upload/PDF/LED_EN.pdf">https://www.meanwell.com/Upload/PDF/LED_EN.pdf</a></p> <p>※ Product Liability Disclaimer : For detailed information, please refer to <a href="https://www.meanwell.com/serviceDisclaimer.aspx">https://www.meanwell.com/serviceDisclaimer.aspx</a></p> |   |  |                                     |

**Mechanical Specification**

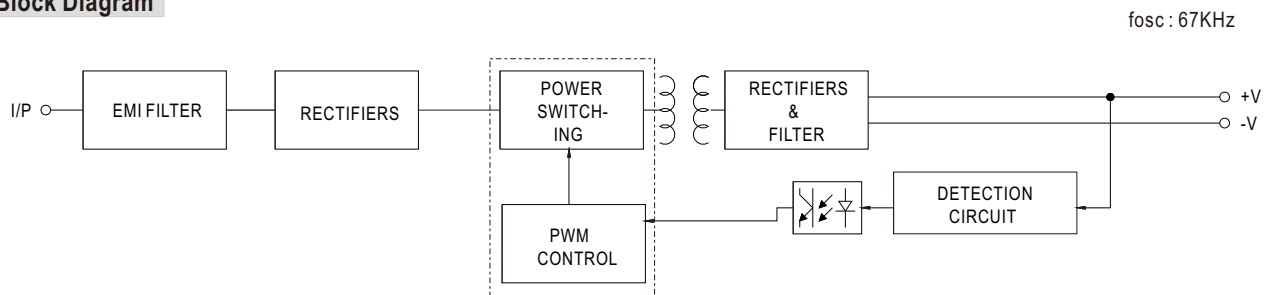
Unit:mm Tolerance:±1



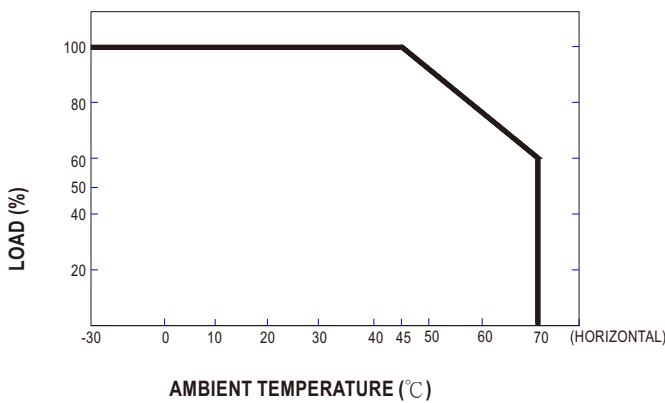
※ T case: Max. Case Temperature



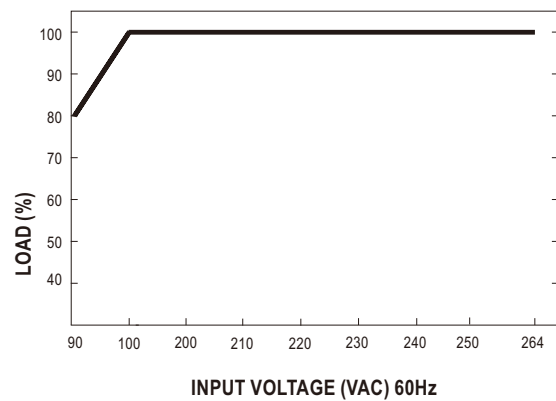
**Block Diagram**



**Derating Curve**



**Static Characteristics**





■ EFFICIENCY vs LOAD (APC-12-350)

