



25W Single Output Switching Power Supply

APC-25 series



■ 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)(Note.8)
- Low cost / High reliability
- 2 years warranty



SPECIFICATION

IS 15885(Part 2/Sec13)
R-41027766

(only for APC-25-500)



(only for APC-25-700&1050)

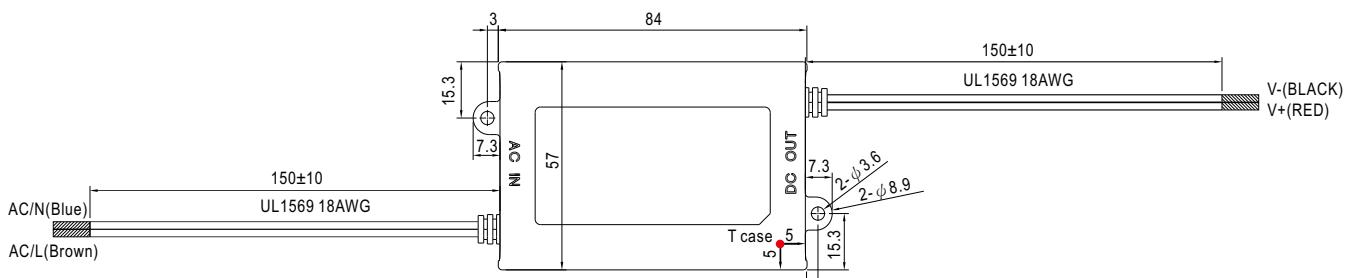
IP42 LPS (except for APC-25-350)



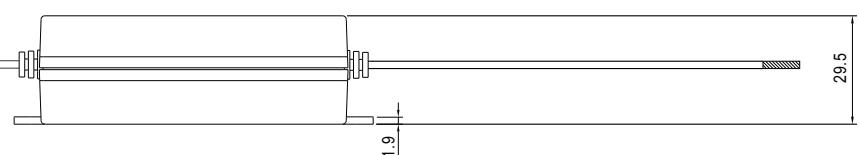
| MODEL | APC-25-350 | APC-25-500 | APC-25-700 | APC-25-1050 |
|-----------------------|---|------------|------------|-------------|
| OUTPUT | RATED CURRENT 350mA | 500mA | 700mA | 1050mA |
| | DC VOLTAGE RANGE 25~70V | 15~50V | 11~36V | 9~24V |
| | RATED POWER 24.5W | 25.2W | 25.2W | 25.2W |
| | RIPPLE & NOISE (max.) Note.2 300mVp-p | 300mVp-p | 300mVp-p | 300mVp-p |
| | VOLTAGE TOLERANCE Note.3 $\pm 5.0\%$ | | | |
| | CURRENT ACCURACY $\pm 8.0\%$ | | | |
| | LINE REGULATION $\pm 1.0\%$ | | | |
| | LOAD REGULATION $\pm 3.0\%$ | | | |
| | SETUP, RISE TIME 1500ms, 30ms / 230VAC 1500ms, 30ms / 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.) 83% | 83% | 83% | 83% |
| | AC CURRENT 0.4A/230VAC; 0.8A/115VAC | | | |
| | INRUSH CURRENT(Typ.) COLD START 45A(twidth=310 μ s measured at 50% Ipeak) at 230VAC | | | |
| | MAX. No. of PSUs on 16A CIRCUIT BREAKER 9 units (circuit breaker of type B) / 15 units (circuit breaker of type C) at 230VAC | | | |
| PROTECTION | LEAKAGE CURRENT 0.25mA / 240VAC | | | |
| | OVER VOLTAGE 76 ~ 94V | 55 ~ 68V | 41 ~ 49V | 27 ~ 35V |
| | 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 $\pm 0.2\%/\text{°C}$ (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 (except for APC-25-350), CSA-C22.2 No. 250.0-13 (only for APC-25-700&1050), BIS IS15885, EAC TP TC 004, IP42 approved; design refer to BS EN/EN 62368-1 | | | |
| | WITHSTAND VOLTAGE I/P-O/P:3KVAC | | | |
| | ISOLATION RESISTANCE I/P-O/P:>100M Ohms / 500VDC / 25°C / 70% RH | | | |
| | EMC EMISSION Compliance to BS EN/EN55032, BS EN/EN61000-3-2 Class A, BS EN/EN61000-3-3, EAC TP TC 020 | | | |
| | EMC IMMUNITY Compliance to BS EN/EN55024, BS EN/EN61000-4-2, 3, 4, 5, 6, 8, 11; light industry level(surge 2KV), criteria A, EAC TP TC 020 | | | |
| OTHERS | MTBF 518.9K hrs min. MIL-HDBK-217F (25°C) | | | |
| | DIMENSION 84*57*29.5(L*W*H) | | | |
| | PACKING 0.13Kg; 72pcs/10.4Kg/0.92CUFT | | | |
| NOTE | <ol style="list-style-type: none"> 1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. 2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. 3. Tolerance : includes set up tolerance, line regulation and load regulation. 4. Derating may be needed under low input voltage. Please check the static characteristic for more details. 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. 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). 7. For any application note and IP water proof function installation caution, please refer our user manual before using. https://www.meanwell.com/Upload/PDF/LED_EN.pdf 8. This product is not intended for LED lighting luminaire applications in the EU.(In the EU the LPF/NPF/XLG series are recommended.) 9. To fulfill requirements of latest ErP regulation for lighting luminaires, this LED Driver can only be used behind a switch without permanently connected to mains. | | | |

■ Mechanical Specification

Case No.PCD16A Unit:mm

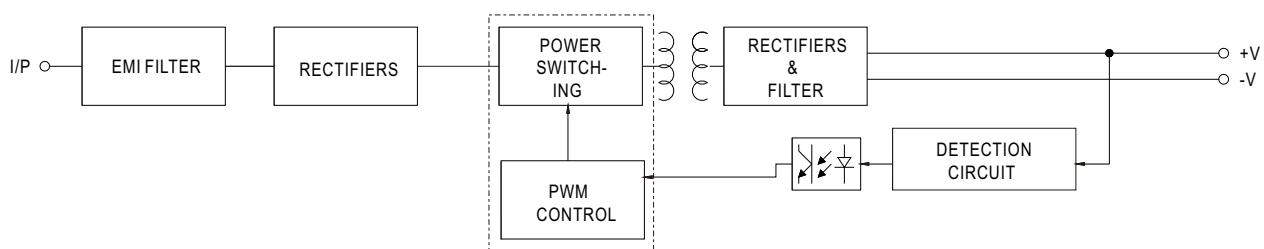


※ T case: Max. Case Temperature.

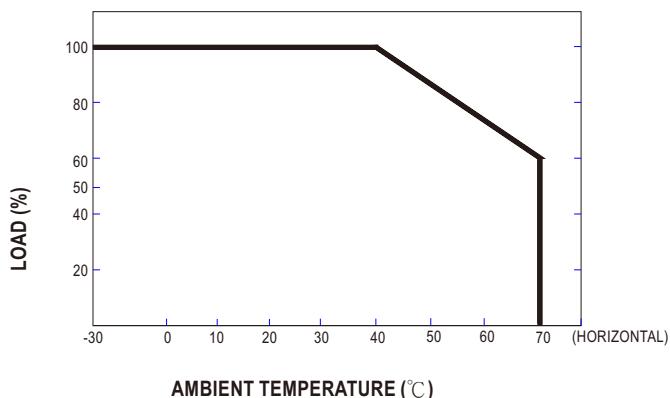


■ Block Diagram

fosc : 60KHz



■ Derating Curve



■ Static Characteristics

