



- Features :
 - Constant voltage design
 - Universal AC input / Full range
 - Protections: Short circuit / Over load / Over voltage
 - Fully isolated plastic case
 - Cooling by free air convection
 - Small and compact size
 - 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)
 - 100% full load burn-in test
 - Low cost, high reliability
 - 2 years warranty

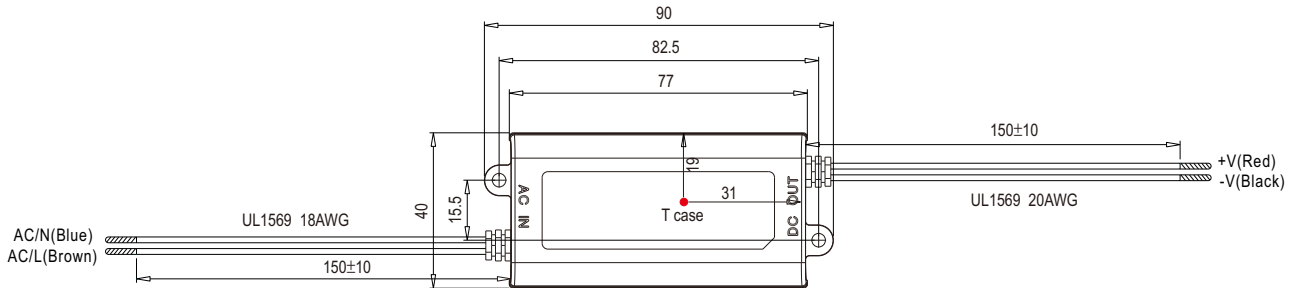


SPECIFICATION

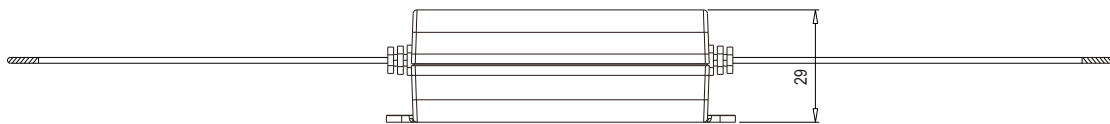
| MODEL | APV-16-5 | APV-16-12 | APV-16-15 | APV-16-24 | |
|-----------------|--|---|------------------------------------|------------|--------------|
| OUTPUT | DC VOLTAGE | 5V | 12V | 15V | 24V |
| | RATED CURRENT | 2.6A | 1.25A | 1A | 0.67A |
| | CURRENT RANGE | 0 ~ 2.6A | 0 ~ 1.25A | 0 ~ 1A | 0 ~ 0.67A |
| | RATED POWER | 13W | 15W | 15W | 16.08W |
| | RIPPLE & NOISE (max.) Note.2 | 100mVp-p | 120mVp-p | 120mVp-p | 150mVp-p |
| | VOLTAGE TOLERANCE Note.3 | ±5.0% | | | |
| | LINE REGULATION | ±1.0% | | | |
| | LOAD REGULATION | ±2.0% | | | |
| | SETUP, RISE TIME Note.6 | 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.) | 76% | 80% | 81% | 83% |
| | AC CURRENT | 0.3A/230VAC | 0.5A/115VAC | | |
| | INRUSH CURRENT(Typ.) | COLD START 50A(twidth=185µs measured at 50% Ipeak) at 230VAC | | | |
| | MAX. No. of PSUs on 16A CIRCUIT BREAKER | 13 units (circuit breaker of type B) / 22 units (circuit breaker of type C) at 230VAC | | | |
| LEAKAGE CURRENT | 0.25mA / 240VAC | | | | |
| PROTECTION | OVER LOAD | Above 105% rated output power Protection type : Hiccup mode, recovers automatically after fault condition is removed | | | |
| | OVER VOLTAGE | 5.75 ~ 6.75V | 13.8 ~ 16V | 17.5 ~ 21V | 27.6 ~ 32.4V |
| 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 | ±0.03%/°C (0 ~ 50°C) | | | |
| | VIBRATION | 10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes | | | |
| SAFETY & EMC | SAFETY STANDARDS Note.8 | UL8750, CSA C22.2 No.250.0-08, ENEC EN61347-1, EN61347-2-13, EN62384 Independent, BIS IS15885(except for 15V), EAC TP TC 004, IP42 approved | | | |
| | 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 EN55032, EN61000-3-2 Class A, EN61000-3-3, EAC TP TC 020 | | | |
| | EMC IMMUNITY | Compliance to EN55024, EN61000-4-2, 3, 4, 5, 6, 8, 11; light industry level(surge 2KV), criteria A, EAC TP TC 020 | | | |
| OTHERS | MTBF | 1145.7K hrs min. MIL-HDBK-217F (25°C) | | | |
| | DIMENSION | 77*40*29mm (L*W*H) | | | |
| | PACKING | 0.1Kg; 120pcs/14Kg/1.06CUFT | | | |
| NOTE | 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 0.1µf & 47µf 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 characteristics 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. Length of set up time is measured at first cold start. Turning ON/OFF the power supply may lead to increase of the set up time. 7. 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. 8. The model certified for CCC(GB19510.14, GB19510.1, GB17743 and GB17625.1) is an optional model . Please contact MEAN WELL for details. 9. 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). 10. Products sourced from the Americas regions may not have the ENEC/BIS/CCC logo. Please contact your MEAN WELL sales for more information. 11. 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 ※ Product Liability Disclaimer : For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx | | | | |

Mechanical Specification

Unit:mm

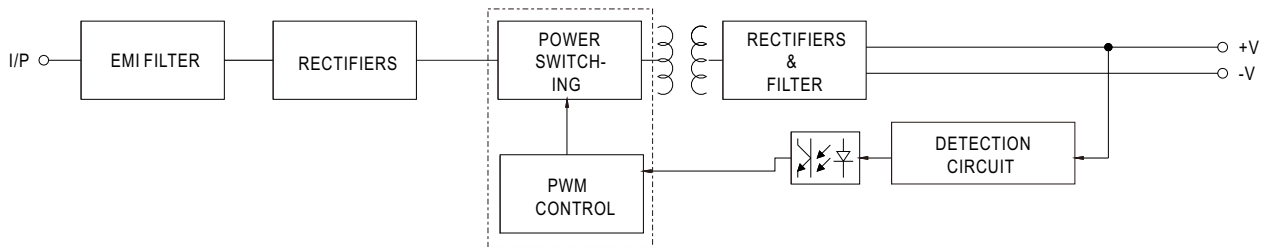


※ T case: Max. Case Temperature

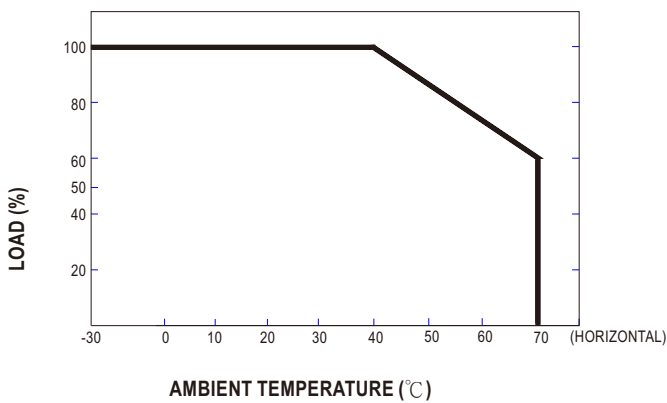


Block Diagram

fosc : 67KHz



Derating Curve



Static Characteristics

