



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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- Features :
 - Constant voltage mode power supply
 - Universal AC input / Full range
 - Withstand 300VAC Surge input for 5 seconds
 - Protections: Short circuit / Over load / Over voltage
 - Fully isolated plastic case
 - Cooling by free air convection
 - Small and compact size
 - IP42 design
 - Class 2 power unit
 - Pass LPS
 - 100% full load burn-in test
 - Low cost, high reliability
 - Suitable for LED related fixture or appliance (such as LED Decoration or Advertisement devices)
 - 2 years warranty

IS 15885(Part 2/Sec13)

IP42 LPS

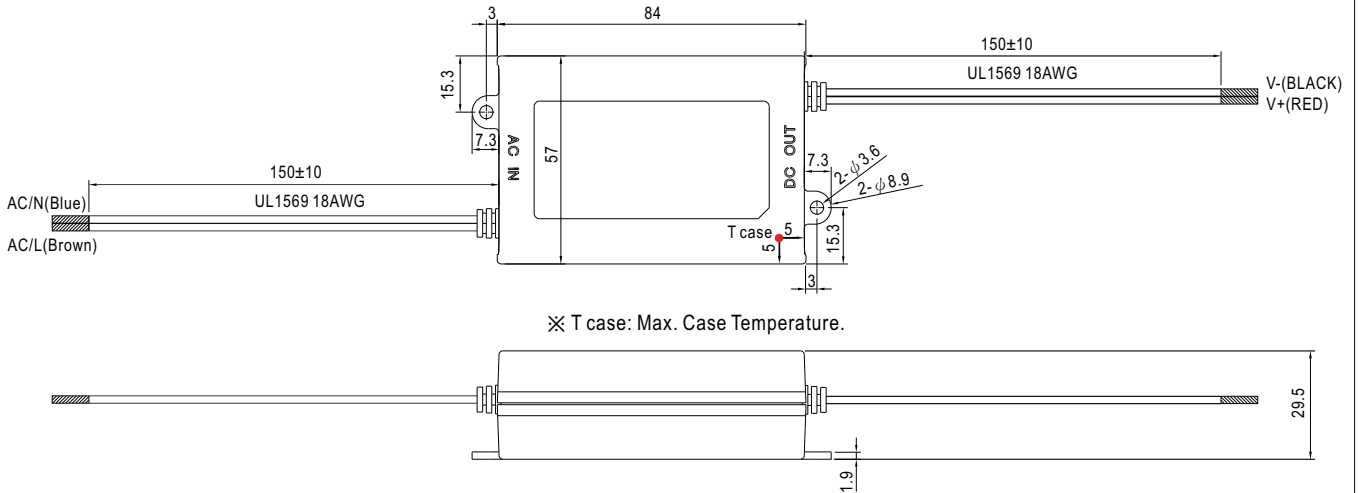
R-41027766 (except for 15V,36V)

SPECIFICATION

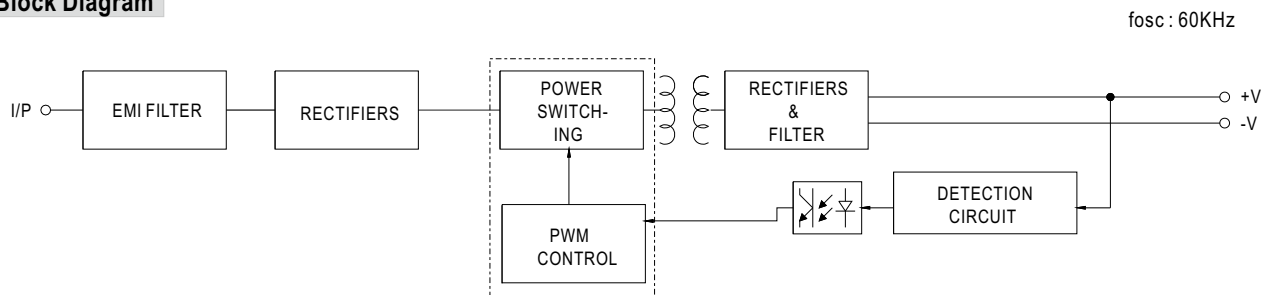
| MODEL | APV-25-5 | APV-25-12 | APV-25-15 | APV-25-24 | APV-25-36 | |
|--------------|---|--|--------------------------|------------------------------------|------------|--------------|
| OUTPUT | DC VOLTAGE | 5V | 12V | 15V | 24V | 36V |
| | RATED CURRENT | 3.5A | 2.1A | 1.68A | 1.05A | 0.7A |
| | CURRENT RANGE | 0 ~ 3.5A | 0 ~ 2.1A | 0 ~ 1.68A | 0 ~ 1.05A | 0 ~ 0.7A |
| | RATED POWER | 17.5W | 25.2W | 25.2W | 25.2W | 25.2W |
| | RIPPLE & NOISE (max.) Note.2 | 120mVp-p | 150mVp-p | 150mVp-p | 150mVp-p | 150mVp-p |
| | VOLTAGE TOLERANCE Note.3 | ±5.0% | | | | |
| | LINE REGULATION | ±1.0% | | | | |
| | LOAD REGULATION | ±2.0% | | | | |
| INPUT | 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 | | | |
| | VOLTAGE RANGE Note.4 | 90 ~ 264VAC | 127 ~ 370VDC | | | |
| | FREQUENCY RANGE | 47 ~ 63Hz | | | | |
| | EFFICIENCY (Typ.) | 75.5% | 82% | 83% | 83% | 84% |
| | AC CURRENT | 0.4A/230VAC | | 0.8A/115VAC | | |
| PROTECTION | INRUSH CURRENT(Typ.) | COLD START 45A(twidth=310µs 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 | | | | |
| | LEAKAGE CURRENT | 0.25mA / 240VAC | | | | |
| | OVER LOAD | Above 105% rated output power Protection type : Hiccup mode, recovers automatically after fault condition is removed | | | | |
| | OVER VOLTAGE | 5.75 ~ 6.95V | 13.8 ~ 16.2V | 17.25 ~ 21V | 27 ~ 32.4V | 41.4 ~ 48.6V |
| ENVIRONMENT | Protection type : Shut down o/p voltage, re-power on to recover | | | | | |
| | 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) | | | | |
| SAFETY & EMC | VIBRATION | 10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes | | | | |
| | SAFETY STANDARDS | UL8750 , CSA-C22.2 No. 250.0-13, BIS IS15885(except for 15V,36V), EAC TP TC 004,IP42 approved; design refer to EN60950-1 | | | | |
| | WITHSTAND VOLTAGE | I/P-O/P:3KVAC | | | | |
| | ISOLATION RESISTANCE | I/P-O/P:>100M Ohms / 500VDC / 25°C / 70% RH | | | | |
| | EMC EMISSION | Compliance to EN55032,EN61000-3-2 Class A,EN61000-3-3, EAC TP TC 020 | | | | |
| OTHERS | 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 | | | | |
| | MTBF | 692.8K hrs min. MIL-HDBK-217F (25°C) | | | | |
| | DIMENSION | 84*57*29.5mm (L*W*H) | | | | |
| NOTE | PACKING | 0.13Kg; 72pcs / 10.4Kg / 0.92CUFT | | | | |
| | 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 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. | | | | | |

Mechanical Specification

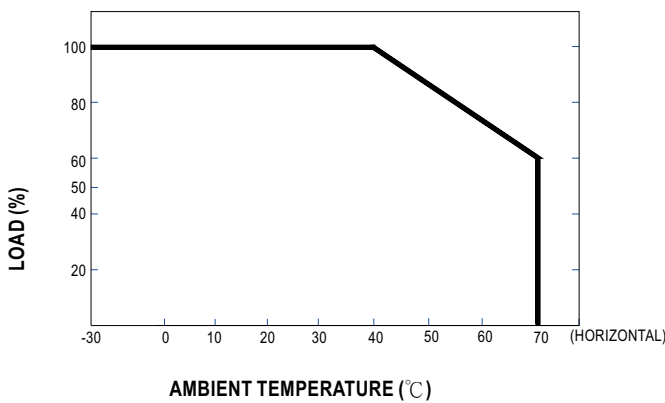
Case No.PCD16A Unit:mm



Block Diagram



Derating Curve



Static Characteristics

