



IP42 CE

■ Features

- Constant voltage design
- Class II power unit, no FG
- Fully isolated plastic case
- IP42 design
- Small and compact size
- Cooling by free air convection
- Protections: Short circuit / Overload / Over voltage
- No load power consumption <0.5W
- 100% full load burn-in test
- Low cost, high reliability
- 2 years warranty

■ Applications

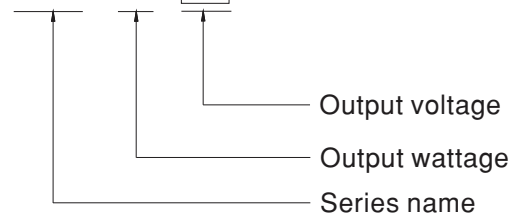
- Indoor LED lighting
- LED decorative lighting
- LED office lighting
- LED signage

■ Description

APV-8E series is one 8W AC/DC constant voltage mode single output LED power supply. It accepts input 180~264VAC and provides three models with different output voltage, 5V, 12V, 24V, respectively, that the small wattage LED applications employ the most frequently. Exploiting Class II design (without FG pin) and adopting the 94V-0 flame retardant plastic enclosure, APV-8E ideally fits the entry-level LED applications.

■ Model Encoding

APV - 8E - 24



File Name: APV-8E-SPEC 2015-12-22

Specifications are subject to change without notice. It is responsibility of each customer to thoroughly test each product and part number under their unique parameters and environments to ensure a product will work properly and reliably.

Click below for more details, to buy on-line or request volume pricing:

<http://power.sager.com/mean-well-APV-8E-power-supply.html>

(866) 588-1750
power@sager.com
<http://power.sager.com>

SPECIFICATION

| MODEL | | APV-8E-5 | | APV-8E-12 | | APV-8E-24 | |
|--------------|---|---|--|--|--|--------------|--|
| OUTPUT | DC VOLTAGE | 5V | | 12V | | 24V | |
| | RATED CURRENT | 1.4A | | 0.67A | | 0.34A | |
| | CURRENT RANGE | 0 ~ 1.4A | | 0 ~ 0.67A | | 0 ~ 0.34A | |
| | RATED POWER | 7W | | 8.04W | | 8.16W | |
| | RIPPLE & NOISE (max.) <small>Note.2</small> | 250mVp-p | | 250mVp-p | | 300mVp-p | |
| | VOLTAGE TOLERANCE <small>Note.3</small> | ±5.0% | | | | | |
| | LINE REGULATION | ±1.0% | | | | | |
| | LOAD REGULATION | ±2.0% | | | | | |
| | SETUP, RISE TIME | 500ms, 30ms / 230VAC | | | | | |
| | HOLD UP TIME (Typ.) | 20ms/230VAC at full load | | | | | |
| INPUT | VOLTAGE RANGE <small>Note.4</small> | 180 ~ 264VAC | | 254 ~ 370VDC (<small>Note.6</small>) | | | |
| | FREQUENCY RANGE | 47 ~ 63Hz | | | | | |
| | POWER FACTOR (Typ.) | PF>0.5/230VAC at full load | | | | | |
| | EFFICIENCY (Typ.) | 74% | | 77.5% | | 78.5% | |
| | AC CURRENT | 0.15A/230VAC | | | | | |
| | INRUSH CURRENT(Typ.) | COLD START 70A(twidth=120μs measured at 50% Ipeak) at 230VAC | | | | | |
| | LEAKAGE CURRENT | 0.25mA / 240VAC | | | | | |
| PROTECTION | SHORT CIRCUIT | Hiccup mode, recovers automatically after fault condition is removed | | | | | |
| | 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 | | 27.6 ~ 32.4V | |
| | | Protection type : Shut off o/p voltage, clamping by zener diode | | | | | |
| ENVIRONMENT | WORKING TEMP. | -30 ~ +70℃ (Refer to "Derating Curve") | | | | | |
| | WORKING HUMIDITY | 20 ~ 90% RH non-condensing | | | | | |
| | STORAGE TEMP., HUMIDITY | -40 ~ +80℃, 10 ~ 95% RH | | | | | |
| | TEMP. COEFFICIENT | ±0.03%/℃ (0 ~ 45℃) | | | | | |
| | VIBRATION | 10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes | | | | | |
| SAFETY & EMC | SAFETY STANDARDS | Design refer to UL8750,CSA C22.2 No.250.0-08; EN60950-1,EN61347-1,EN61347-2-13 | | | | | |
| | WITHSTAND VOLTAGE | I/P-O/P:3.75KVAC | | | | | |
| | ISOLATION RESISTANCE | I/P-O/P:>100M Ohms / 500VDC / 25℃ / 70% RH | | | | | |
| | EMC EMISSION | Compliance to EN55015,EN61000-3-2 Class A,EN61000-3-3 | | | | | |
| | EMC IMMUNITY | Compliance to EN61547,EN61000-4-2,3,4,5,6,8,11; light industry level(surge 2KV), criteria A | | | | | |
| OTHERS | MTBF | 1631.5K hrs min. MIL-HDBK-217F (25℃) | | | | | |
| | DIMENSION | 60*30*23.5(L*W*H) | | | | | |
| | PACKING | 0.09Kg; 144pcs/14Kg/0.75CUFT | | | | | |
| NOTE | 1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25℃ 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. When applying DC voltage for input, please connect the brown input wire to the positive side whereas blue input wire to the negative side. | | | | | | |

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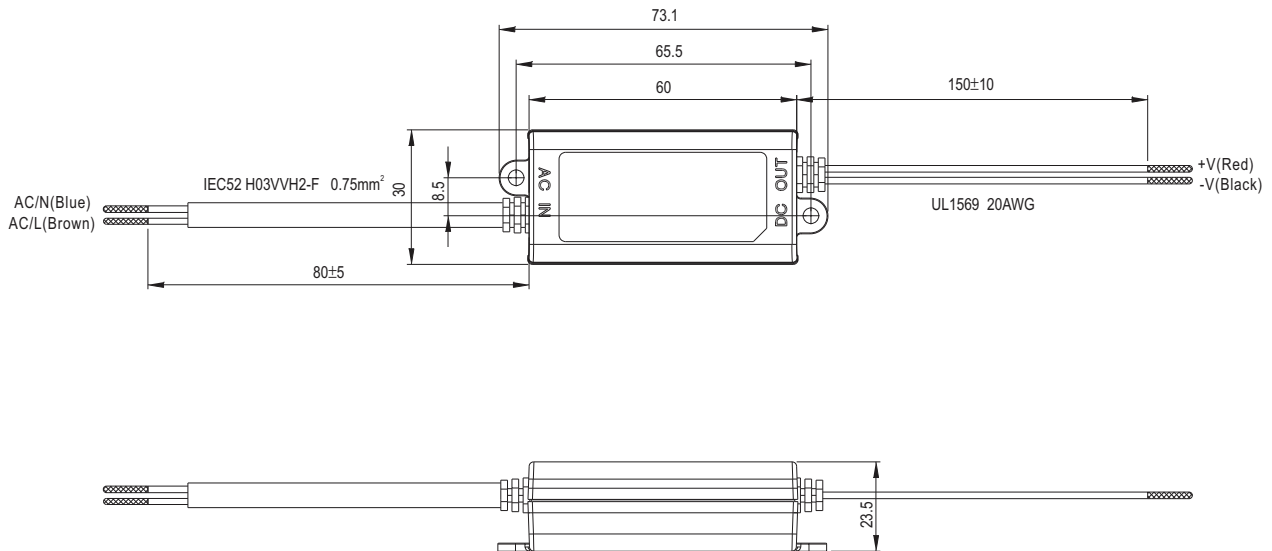
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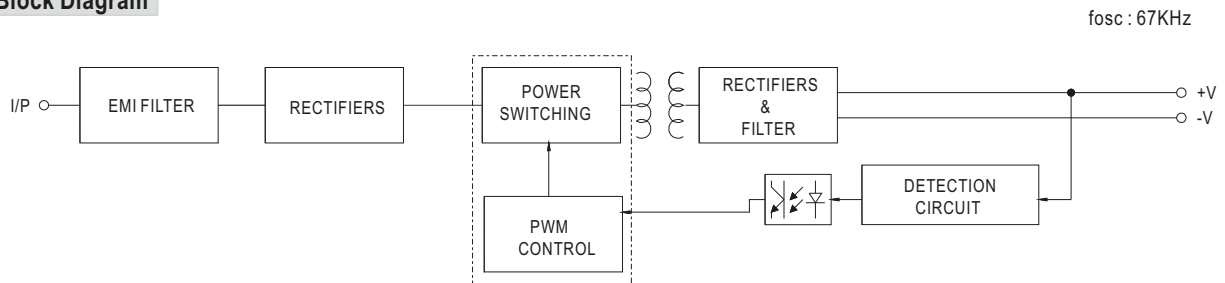
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Mechanical Specification

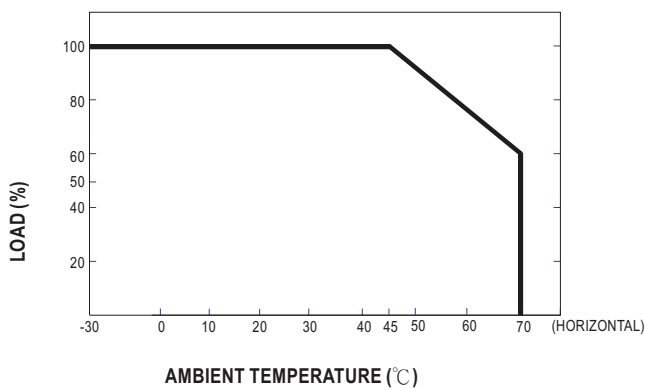
Unit:mm



Block Diagram



Derating Curve



Static Characteristics

