



■ Features :

- Constant voltage design
- Universal AC input / Full range
- Fully encapsulated with IP67 level (Note.8)
- Withstand 300VAC surge input for 5 seconds
- Protections: Short circuit / Overload / Over voltage
- Fully isolated plastic case
- Cooling by free air convection
- 100% full load burn-in test
- Low cost, high reliability
- Suitable for LED lighting and moving sign applications(Note 7.)
- 5 years warranty

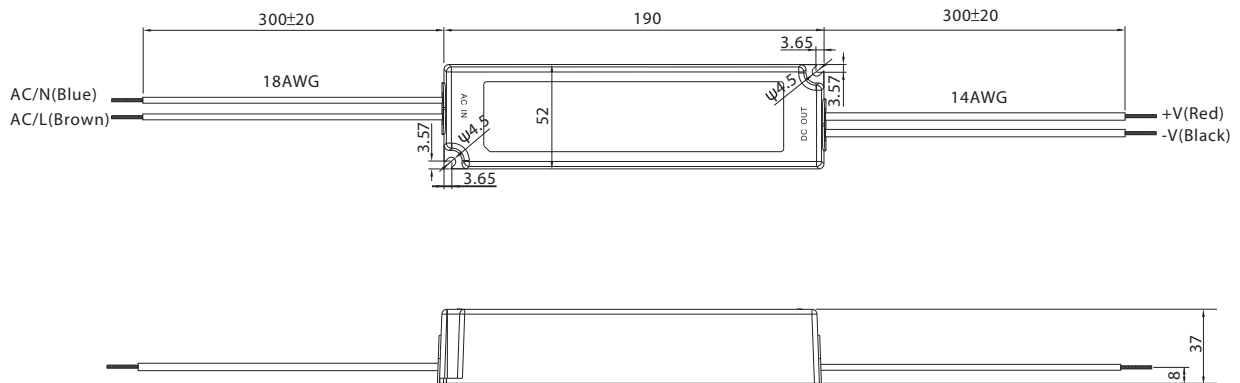
□ IP67 CE

SPECIFICATION

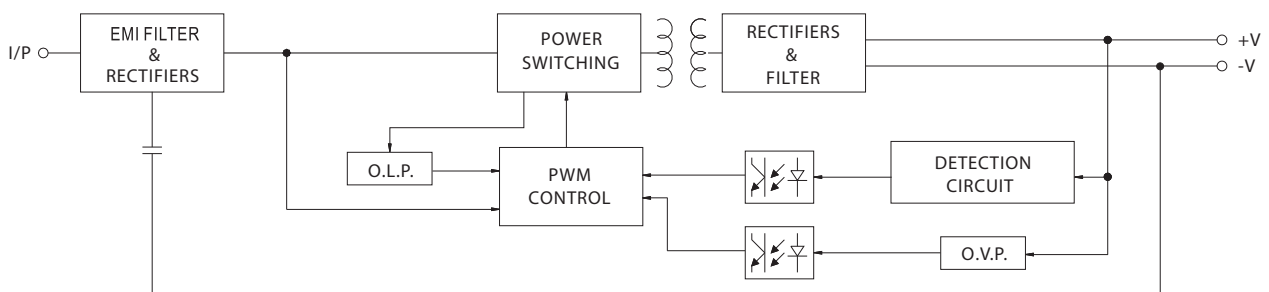
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|--------------|---|---|
| MODEL | | BP-V12-1000 |
| OUTPUT | DC VOLTAGE | 12V |
| | RATED CURRENT | 8.5A |
| | CURRENT RANGE | 0 ~ 8.5A |
| | RATED POWER | 102W |
| | RIPPLE & NOISE (max.) Note.2 | 120mVp-p |
| | VOLTAGE TOLERANCE Note.3 | ± 5.0% |
| | LINE REGULATION | ± 1.0% |
| | LOAD REGULATION | ± 2.0% |
| | SETUP, RISE TIME Note.6 | 2000ms, 25ms / 230VAC 2000ms, 25ms / 115VAC |
| | HOLD UP TIME (Typ.) | 50ms/230VAC 14ms/115VAC at full load |
| INPUT | VOLTAGE RANGE Note.4 | 90 ~ 264VAC |
| | FREQUENCY RANGE | 47 ~ 63Hz |
| | EFFICIENCY (Typ.) | 85% |
| | AC CURRENT | 2.2A/115VAC 1.2A/230VAC |
| | INRUSH CURRENT(max.) | COLD START 30A/115VAC 75A/230VAC |
| | LEAKAGE CURRENT | 0.25mA / 240VAC |
| PROTECTION | OVER CURRENT | 110 ~ 150% rated output power Protection type : Hiccup mode, recovers automatically after fault condition is removed |
| | OVER VOLTAGE | 13.8 ~ 16.2V Protection type : Shut down o/p voltage, re-power on to recover |
| | | |
| ENVIRONMENT | WORKING TEMP. | -25 ~ +70°C (Refer to output load 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 | IP67 approved; Design refer to TUV EN60950-1, EN61347-2-13 |
| | WITHSTAND VOLTAGE | I/P-O/P:3KVAC |
| | ISOLATION RESISTANCE | I/P-O/P:>100M Ohms / 500VDC / 25°C/ 70% RH |
| | EMI CONDUCTION & RADIATION | Compliance to EN55022 (CISPR22) Class B |
| | HARMONIC CURRENT | Compliance to EN61000-3-2 Class A(≡ 80% load), EN61000-3-3 |
| OTHERS | EMS IMMUNITY | Compliance to EN61000-4-2,3,4,5,6,8,11; ENV50204, EN55024, heavy industry level, criteria A |
| | MTBF | 703Khrs min. MIL-HDBK-217F (25°C) |
| | DIMENSION | 190*52*37mm (L*W*H) |
| | PACKING | 0.63Kg;20pcs/13.6Kg/0.57CUFT |
| NOTE | <p>1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.</p> <p>2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.</p> <p>3. Tolerance : includes set up tolerance, line regulation and load regulation.</p> <p>4. Derating may be needed under low input voltage. Please check the static characteristics for more details.</p> <p>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.</p> <p>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.</p> <p>7. In the European market this product is only suitable for LED lighting applications that don't have to comply with the harmonic current requirements of EN61000-3-2 Class C.</p> <p>8. Suitable for indoor use or outdoor use without direct sunlight exposure.</p> | |

Mechanical Specification

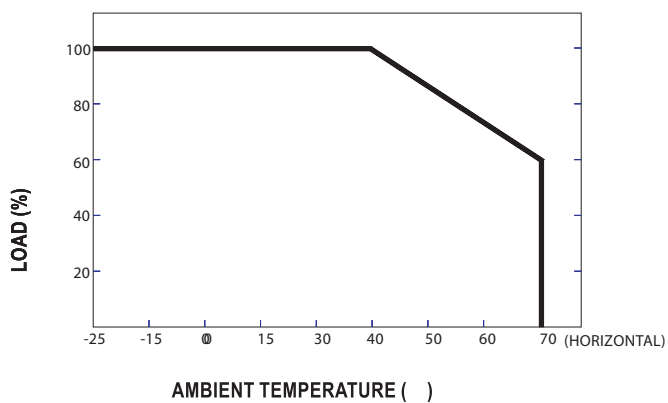
Unit:mm



Block Diagram



Derating Curve



Static Characteristics

