



FEATURES

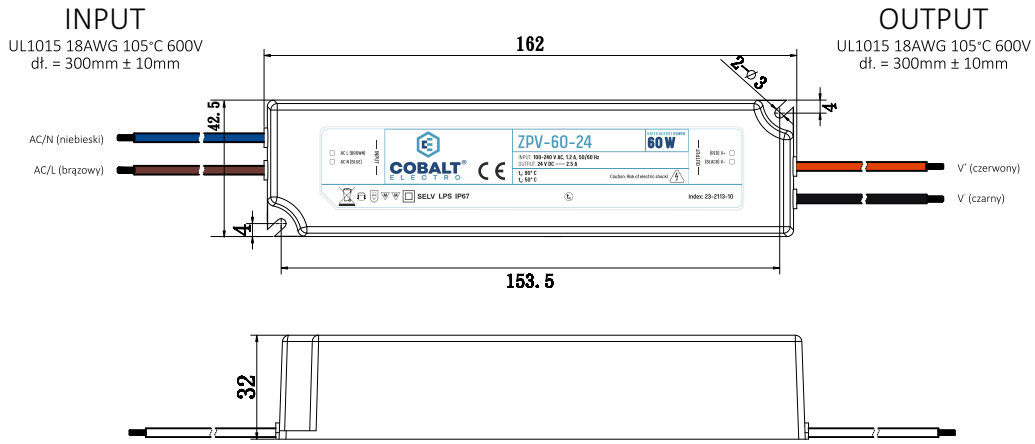
- Stable constant voltage output
- Universal AC input / Full range
- Overvoltage, overload, short circuit, over temperature protection
- Suitable for dry and wet conditions (note 7.)
 - Isolation class II
 - IP67 protection
- Cooling by free air convection
- 3 years warranty

| SPECIFICATION | | ZPV-60-12 | ZPV-60-24 |
|---------------|-----------------------------|--|-----------|
| OUTPUT | DC Voltage | 12V | 24V |
| | Rated Current | 5A | 2.5A |
| | Current Range | 0 ÷ 5A | 0 ÷ 2.5A |
| | Rated Power | 60W | 60W |
| | Line Regulation | ± 1% | ± 1% |
| | Load Regulation | ± 2% | ± 2% |
| | Setup, Rise Time (note 6.) | 1200ms/40ms (230VAC at full load) 2400ms/30ms (115VAC at full load) | |
| | Hold up time | 50ms/(230VAC) at full load 15ms/(115VAC) at full load | |
| | Ripple & Noise (note 2.) | ≤120mVp-p | ≤150mVp-p |
| | Voltage Tolerance (note 3.) | ±5% | |
| INPUT | Voltage Range | 90 ÷ 264VAC 127 ÷ 373VDC | |
| | Frequency Range | 47 ÷ 63HZ | |
| | Efficiency (Typ.) | ≥83.5% | ≥88% |
| | AC Current (Typ.) | 1.2A/115VAC 0.6A/230VAC | |
| | Inrush Current (Typ.) | COLD START 35A/115VAC 60A/230VAC | |
| | Leakage Current (Max.) | <1mA / 240VAC | |
| | No Load Power Consumption | <0.5W | |

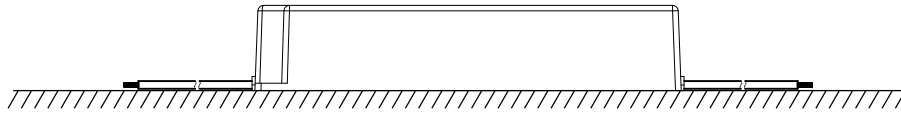
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|---------------------|-------------------------|---|---|
| PROTECTION | Overload | 105 ÷ 175% rated output current Hiccup mode, auto-recovery after fault condition is removed | 105 ÷ 175% rated output current Hiccup mode, auto-recovery after fault condition is removed |
| | Over Voltage | 115 ÷ 150% shut down o/p voltage, re-power on to recover | 115 ÷ 150% shut down o/p voltage, re-power on to recover |
| | Short Circuit | Hiccup mode, auto-recovery after fault condition is removed | |
| WORKING ENVIRONMENT | Working Temp. | -30 ÷ +70°C (Refer to "derating curve") | |
| | Working Humidity | 20 ÷ 95% RH non-condensing | |
| | Storage Temp., Humidity | -40 ÷ +85°C, 10 ÷ 95% RH non-condensing | |
| | Temp. Coefficient | 0.03%/°C (0°C ÷ 50°C) | |
| | Vibration | 10 ÷ 500Hz, 2G, 10min/1 cycle, 60min. each along X, Y, Z axes | |
| SAFETY & EMC | Safety Standards | EN61347-1, EN61347-2-13, IP67 | |
| | Withstand Voltage | I/P-O/P: 3KVac/10mA; I/P-CASE: 1.5KVac/10mA; O/P-CASE: 0.5KVAC/10mA | |
| | Isolation Resistance | I/P-O/P: 100M ohms/500VDC/25°C/70% | |
| | EMC Immunity | EN61547 | |
| | EMC Emission | EN55032 CLASS B; EN61000-4-2, 3, 4, 5, 6, 8, 11 | |
| | Harmonic Current | EN61000-3-2, EN61000-3-3 | |
| OTHERS | Dimension | 162 × 42.5 × 32mm (L*W*H) | |
| | Weight and Packing | 50PCS/CTN 19.5KGS/CTN | |

NOTE:

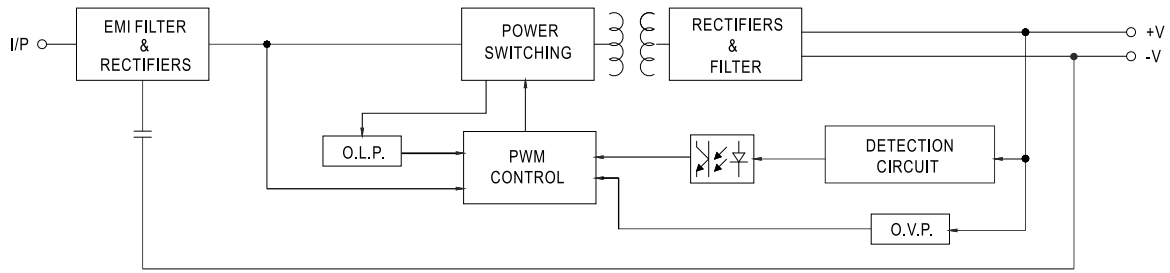
1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.
2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1 uf & 47uf parallel capacitor.
3. Tolerance: includes set up tolerance, line regulation 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. Suitable for indoor use or outdoor use without direct sunlight exposure. Please avoid direct exposure to sunlight and immersion in water for over 30 minutes.



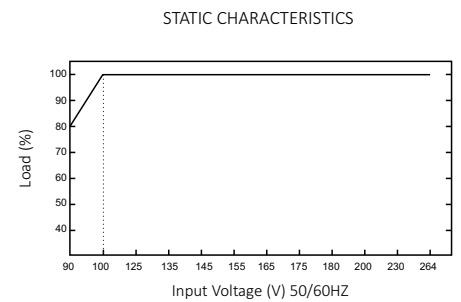
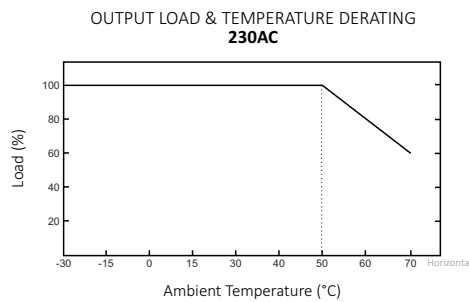
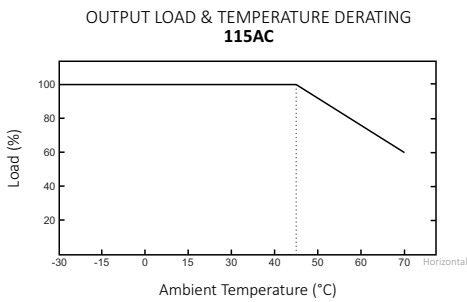
RECOMMEND MOUNTING DIRECTION



BLOCK DIAGRAM



DERATING CURVE



EXPLANATION OF THE SYMBOLS USED ON THE DEVICE



Short-circuit proof safety transformer



II IEC protection class



The device is designed to be placed on wooden surfaces in accordance with: DIN VDE 0710-14



Risk of electric shock

SELV

Safe low voltage output not exceeding 50V AC or 120V DC

LPS

The end product does not need the fire enclosure

IP

Rate of protection against access to dangerous parts inside the housing, ingress of solids and water



Independent electronic transformer: it can be installed separately outside the luminaire without any additional housing