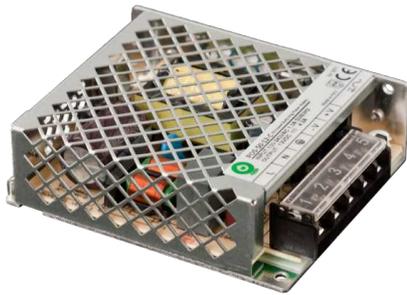


POS-50-C series

50W Constant Voltage Low Profile Enclosed Switching Power Supply



■ Features:

- Constant voltage design
- Universal AC input range
- Protections: Short circuit / Overload / Over voltage
- Cooling by free air convection



◎ ELECTRICAL SPECIFICATION

| MODEL | POS-50-5-C | POS-50-12-C | POS-50-24-C |
|---|---|----------------------|----------------------|
| OUTPUT | | | |
| Rated Voltage | 5V | 12V | 24V |
| Voltage Adjustment | 4.5 ÷ 5.5V | 10.8 ÷ 13.2V | 21.6 ÷ 26.4V |
| Rated Current | 10A | 4.2A | 2.2A |
| Current Range | 0 ÷ 10A | 0 ÷ 4.2A | 0 ÷ 2.2A |
| Rated Power | 50W | 50.4W | 52.8W |
| Line Regulation | ± 0.5% | | |
| Load Regulation | ± 0.5% | | |
| Voltage Tolerance [3] | ± 1% | | |
| Ripple & Noise (max.) [2] | 80mV _{P-P} | 120mV _{P-P} | 160mV _{P-P} |
| Setup, Rise Time, at full load [4] | 1000ms, 30ms / 230VAC at full load | | |
| Hold up Time (typ.) | 30ms / 230VAC at full load | | |
| INPUT | | | |
| Voltage Range | 90 ÷ 264VAC | | |
| Frequency Range | 47 ÷ 63Hz | | |
| Efficiency (typ.) | 82% | 86% | 88% |
| AC current (typ.) | 0.7A/115VAC, 0.42A/230VAC | | |
| Inrush current (max.) | 45A / 230VAC | | |
| PROTECTIONS | | | |
| Over Current | Range: 110 ÷ 150% Type: hiccup mode. Recovers automatically after fault condition is removed. | | |
| Short Circuit | Type: hiccup mode. Recovers automatically after fault condition is removed. | | |
| Over Voltage | Range: 120 ÷ 145% Type: shut down output voltage. Recovers automatically after fault condition is removed. | | |
| WORKING ENVIRONMENT | | | |
| Working Temperature | -20°C ÷ +70°C | | |
| Working Humidity | 20 ÷ 90% RH non-condensing | | |
| Storage Temperature and Humidity | -20°C ÷ +90°C, 10 ÷ 95% RH non-condensing | | |

POS-50-C series

50W Constant Voltage Low Profile Enclosed Switching Power Supply



SAFETY AND EMC REGULATIONS

| | |
|--------------------------|---|
| Safety Standards | Compliance to EN60950-1 |
| Withstand Voltage | IN/OUT: 1.5kVAC; IN/GND: 1.5kVAC; OUT/GND: 500VAC |
| EMC Emission | Compliance to EN55032, EN61000-3-2, EN61000-3-3 |
| EMC Immunity | Compliance to EN55024 |

OTHERS

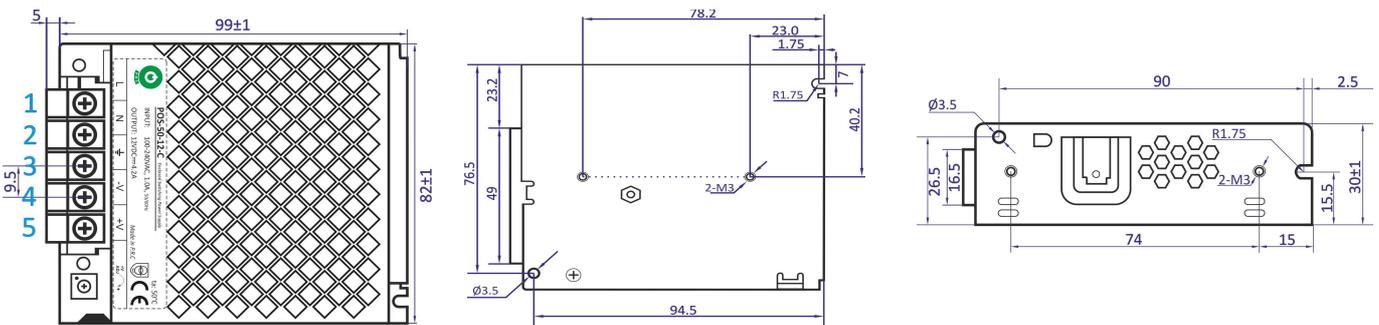
| | |
|---------------------------|---|
| Dimensions | 99 x 82 x 30mm (L x W x H) |
| Weight and Packing | 5V, 12V: 0.2kg; 60pcs./ctn; ctn weight and dimensions: 12.4kg; 39.5 x 23.5 x 29cm |

EAN Code



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 i 47μF parallel capacitor.
3. Tolerance includes set up tolerance, line regulation and load regulation.
4. Setup and rise time is measured from 0 to 90% rated output voltage.
5. Power supply is considered as component not indented to apply by end-user. Power supply meets safety and EMC standards however the final equipment with power supply must be re-quality to comply with EMC Directives.

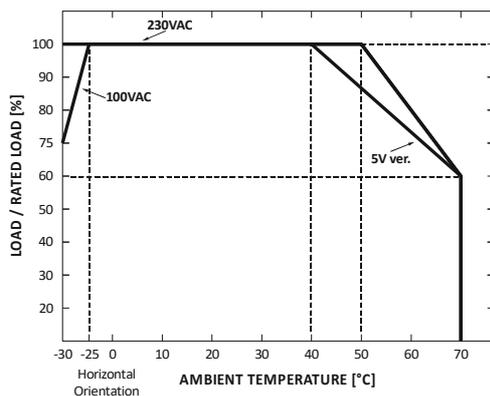
MECHANICAL SPECIFICATION



PIN ASSIGNMENT

| No. | Assignment | No. | Assignment |
|-----|-------------|------|----------------------------|
| 1 | Input: AC/N | 4 | Output: U _{OUT} - |
| 2 | Input: AC/L | 5 | Output: U _{OUT} + |
| 3 | GND | SVR1 | Output voltage adjustment |

DERATING CURVE



STATIC CHARACTERISTIC

