

# POS-75-C series

75W 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-75-12-C	POS-75-24-C
<b>OUTPUT</b>		
<b>Rated Voltage</b>	12V	24V
<b>Voltage Adjustment</b>	11 ÷ 13V	21.5 ÷ 26.5V
<b>Rated Current</b>	6A	3.2A
<b>Current Range</b>	0 ÷ 6A	0 ÷ 3.2A
<b>Rated Power</b>	72W	76.8W
<b>Line Regulation</b>	± 0.5%	
<b>Load Regulation</b>	± 0.5%	
<b>Voltage Tolerance [3]</b>	± 1%	
<b>Ripple &amp; Noise (max.) [2]</b>	120mV <sub>p-p</sub>	210mV <sub>p-p</sub>
<b>Setup, Rise Time [4]</b>	500ms, 40ms / 230VAC at full load	
<b>Hold up Time (typ.)</b>	60ms / 230VAC at full load	
<b>INPUT</b>		
<b>Voltage Range</b>	90 ÷ 264VAC	
<b>Frequency Range</b>	47 ÷ 63Hz	
<b>Power Factor (typ.)</b>	PF > 0.6 / 230VAC at full load	
<b>Efficiency (typ.)</b>	90%	90%
<b>AC current (typ.)</b>	0.85A / 230VAC	
<b>Inrush current (max.)</b>	50A / 230VAC(25°C)	
<b>No Load Power Consumption (max.)</b>	0.3W	
<b>PROTECTIONS</b>		
<b>Over Current</b>	Range: 110 ÷ 150% Type: hiccup mode. Recovers automatically after fault condition is removed.	
<b>Short Circuit</b>	Type: hiccup mode. Recovers automatically after fault condition is removed.	
<b>Over Voltage</b>	Range: 120 ÷ 145% Type: shut down output voltage. Recovers after restart.	
<b>WORKING ENVIRONMENT</b>		
<b>Working Temperature</b>	-20°C ÷ +70°C	
<b>Working Humidity</b>	20 ÷ 90% RH non-condensing	
<b>Storage Temperature and Humidity</b>	-20°C ÷ +90°C, 10 ÷ 95% RH non-condensing	

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## SAFETY AND EMC REGULATIONS

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

## OTHERS

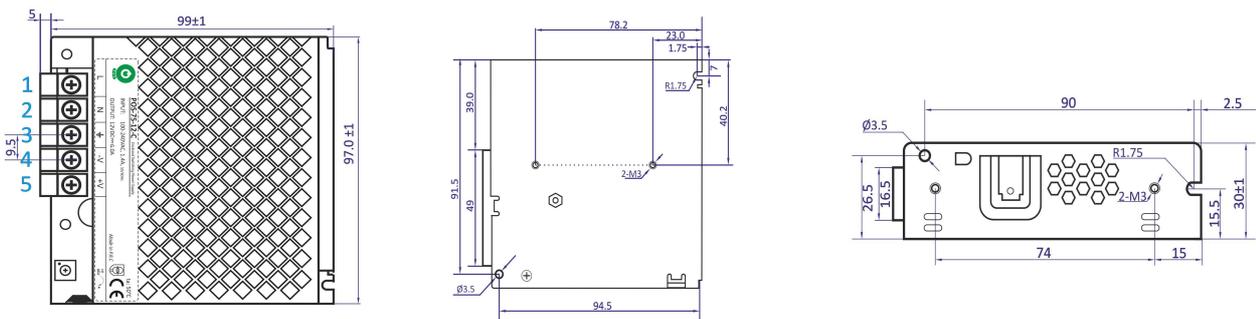
<b>Dimensions</b>	99 x 97 x 30mm (L x W x H)
<b>Weight and Packing</b>	0.3kg; 50pcs./ctn; ctn weight and dimensions: 15kg; 39 x 35.2 x 22.8cm

**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 intended 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.

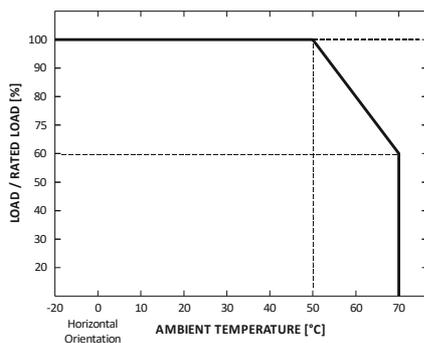
## MECHANICAL SPECIFICATION



## PIN ASSIGNMENT

No.	Assignment	No.	Assignment
1	Input: AC/N	4,5	Output: U <sub>OUT-</sub>
2	Input: AC/L	6,7	Output: U <sub>OUT+</sub>
3	GND	RV1, SVR1	Output voltage adjustment

## DERATING CURVE



## STATIC CHARACTERISTIC

