

POS-100-C series

100W Switching Power Supply (CV)



POS-100-12-C



POS-100-24-C



■ **Features:**

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



© ELECTRICAL SPECIFICATION

MODEL	POS-100-12-C	POS-100-24-C
OUTPUT		
<i>Rated Voltage</i>	12V	24V
<i>Rated Current</i>	8.5A	4.5A
<i>Current Range</i>	0 ÷ 8.5A	0 ÷ 4.5A
<i>Rated Power</i>	102W	108W
<i>Line Regulation</i>	± 1%	± 0.5%
<i>Load Regulation</i>	± 1%	± 0.5%
<i>Voltage Tolerance [3]</i>	± 1%	± 1%
<i>Ripple & Noise (max.) [2]</i>	150mV _{p-p}	350mV _{p-p}
<i>Setup, Rise Time [4]</i>	500ms, 30ms / 230VAC at full load	2000ms, 40ms / 230VAC at full load
<i>Hold up Time (typ.)</i>	30ms / 230VAC at full load	
INPUT		
<i>Voltage Range</i>	90 ÷ 264VAC	
<i>Frequency Range</i>	47 ÷ 63Hz	
<i>Power Factor (typ.)</i>	PF > 0.6 / 230VAC at full load	
<i>Efficiency (typ.)</i>	88%	87%
<i>AC current (typ.)</i>	1.2A / 230VAC	
<i>Inrush current (max.)</i>	50A / 230VAC(25°C)	
<i>No Load Power Consumption (max.)</i>	0.3W	0.4W

PROTECTIONS

<i>Over Current</i>	Range: 110 ÷ 150% Type: hiccup mode. Recovers automatically after fault condition is removed.
<i>Short Circuit</i>	Type: hiccup mode. Recovers automatically after fault condition is removed.
<i>Over Voltage</i>	Range: 120 ÷ 145% Type: shut down output voltage. Recovers automatically after fault condition is removed.

WORKING ENVIRONMENT

<i>Working Temperature</i>	-20°C ÷ +70°C
<i>Working Humidity</i>	20 ÷ 90% RH non-condensing
<i>Storage Temperature and Humidity</i>	-20°C ÷ +90°C, 10 ÷ 95% RH non-condensing

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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	129 x 97.5 x 30mm (L x W x H)
Weight	12V: 0.38kg; 40pcs./ctn; ctn weight and dimensions: 15kg; 39 x 29.8 x 22.8cm 24V: 0.3kg; 48pcs./ctn; ctn weight and dimensions: 16.5kg; 44 x 30 x 21cm

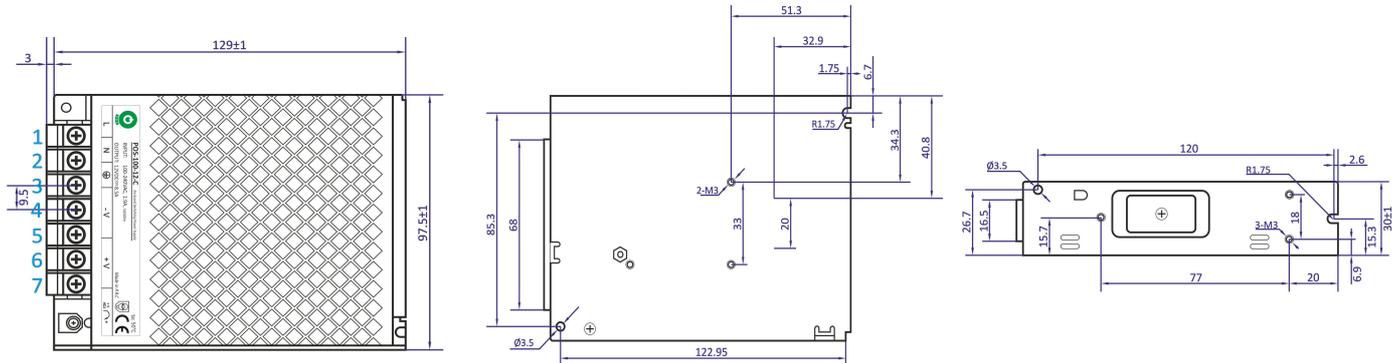
EAN Code



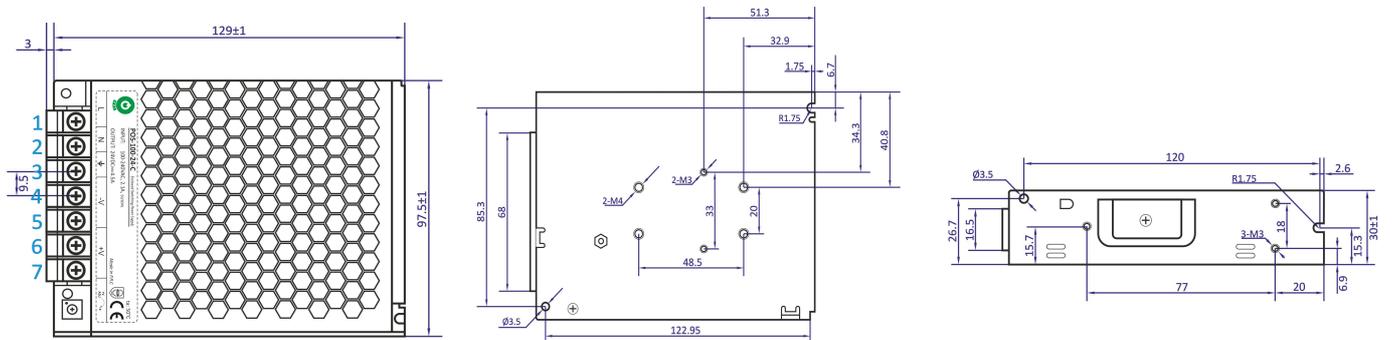
1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.
2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1μF i 47μF parallel capacitor.
3. Tolerance includes set up tolerance, line regulation 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

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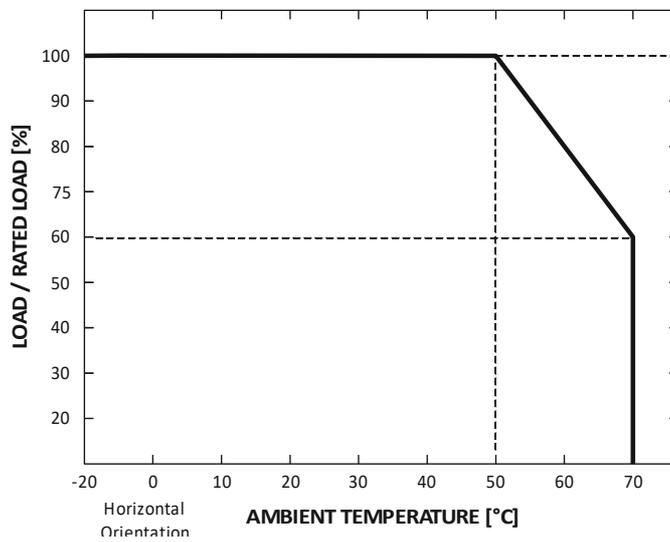
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PIN ASSIGNMENT

No.	Assignment	No.	Assignment
1	Input: AC/N	4,5	Output: U _{OUT-}
2	Input: AC/L	6,7	Output: U _{OUT+}
3	GND		

⊗ DERATING CURVE



⊗ STATIC CHARACTERISTIC

