

POS-100-C series

100W Switching Power Supply (CV)



POS-100-5-C, 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-100-5-C	POS-100-12-C	POS-100-24-C
OUTPUT			
Rated Voltage	5V	12V	24V
Voltage Adjustment	4.5 ÷ 4.5V	10.0 ÷ 13.5V	21.5 ÷ 26.5V
Rated Current	18A	8.5A	4.5A
Current Range	0 ÷ 18A	0 ÷ 8.5A	0 ÷ 4.5A
Rated Power	90W	102W	108W
Line Regulation	± 1%	± 1%	± 0.5%
Load Regulation	± 1%	± 1%	± 0.5%
Voltage Tolerance [3]	± 1%	± 1%	± 1%
Ripple & Noise (max.) [2]	100mV _{p-p}	150mV _{p-p}	350mV _{p-p}
Setup, Rise Time, at full load [4]	500ms, 30ms / 230VAC		2000ms, 40ms / 230VAC
Hold up Time (typ.)	30ms / 230VAC at full load		
INPUT			
Voltage Range	90 ÷ 264VAC		
Frequency Range	47 ÷ 63Hz		
Power Factor (typ.)	PF > 0.6 / 230VAC at full load		
Efficiency (typ.)	86%	88%	87%
AC current (typ.)	1.2A / 230VAC		
Inrush current (max.)	50A / 230VAC(25°C)		
No Load Power Consumption (max.)	0.3W	0.3W	0.4W
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		

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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

5V, 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

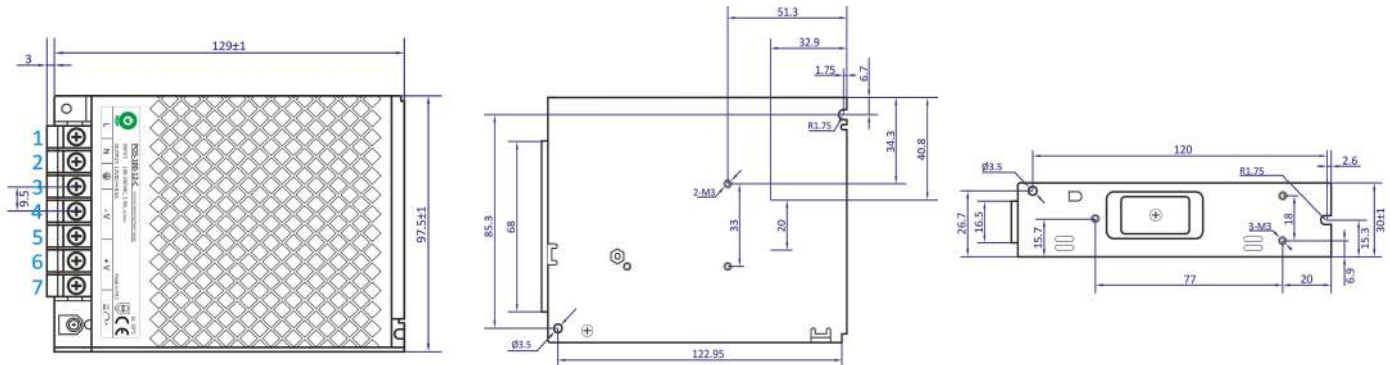
EAN Code



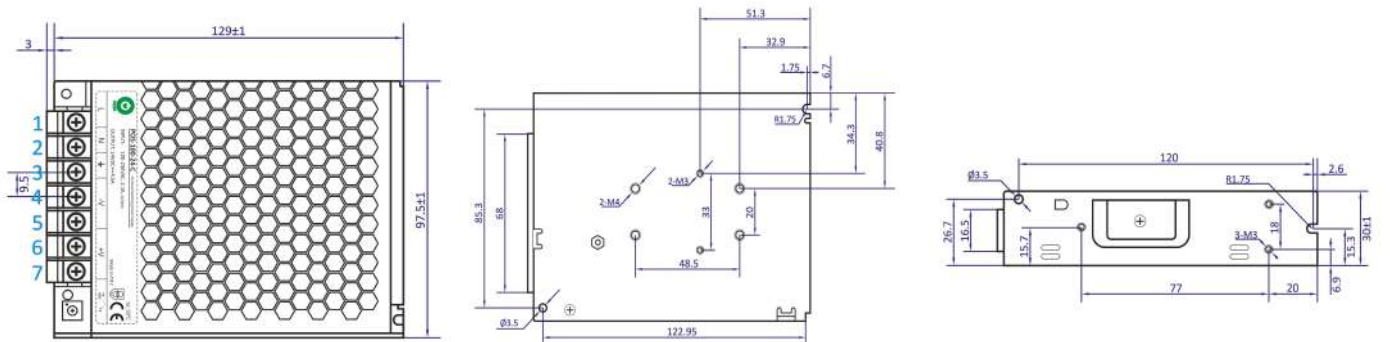
1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.
2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1μF i 47μF parallel capacitor.
3. Tolerance includes set up tolerance, line regulation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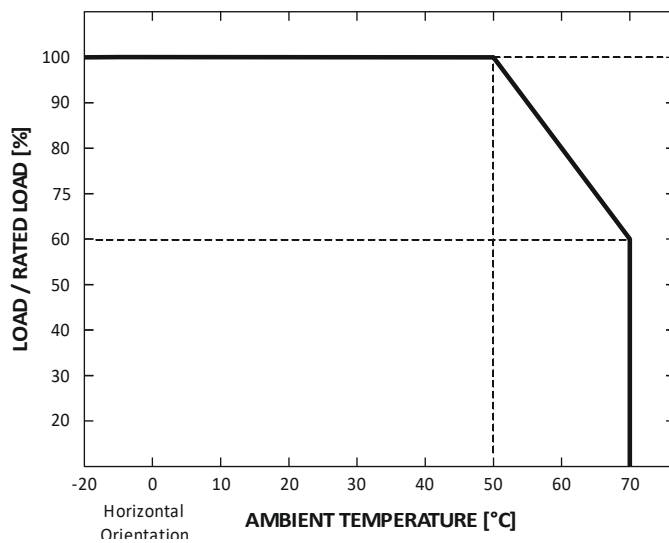
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PIN ASSIGNMENT

No.	Assignment	No.	Assignment
1	Input: AC/N	4,5	Output: U _{OUT-}
2	Input: AC/L	6,7	Output: U _{OUT+}
3	GND	SVR2, RV1	Output voltage adjustment

DERATING CURVE



STATIC CHARACTERISTIC

