

POS-100-24-C series

100W Switching Power Supply (CV)



■ Features:

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



⊙ ELECTRICAL SPECIFICATION

MODEL	POS-100-24-C
OUTPUT	
Rated Voltage	24V
Rated Current	4.5A
Current Range	0 ÷ 4.5A
Rated Power	108W
Line Regulation	± 0.5%
Load Regulation	± 0.5%
Voltage Tolerance [3]	± 1%
Ripple & Noise (max.) [2]	350mV _{p-p}
Setup, Rise Time [4]	2000ms, 40ms / 230VAC at full load
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.)	87%
AC current (typ.)	1.2A / 230VAC
Inrush current (max.)	50A / 230VAC(25°C)
No Load Power Consumption (max.)	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


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

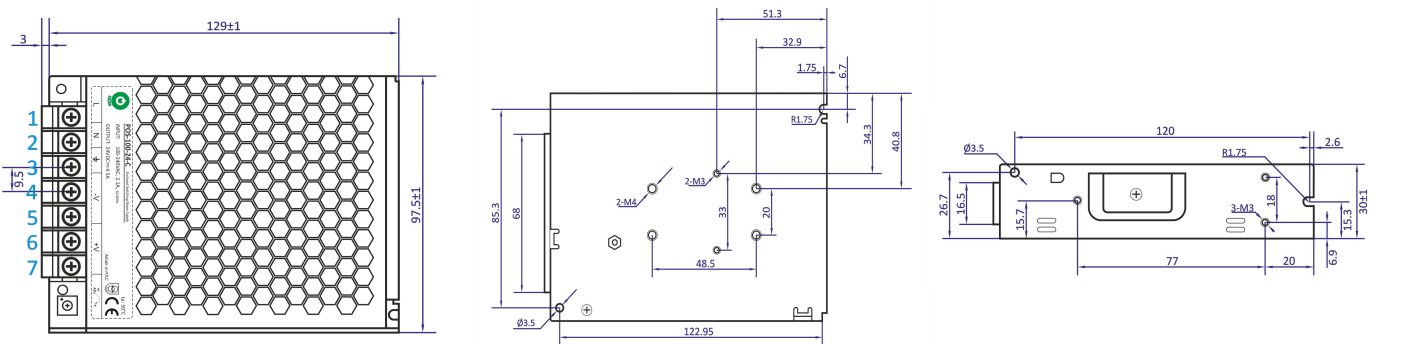
Dimensions	129 x 97.5 x 30mm (L x W x H)
Weight	0.3kg

EAN Code


5 9 0 2 1 3 5 1 2 3 4 4 7

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.

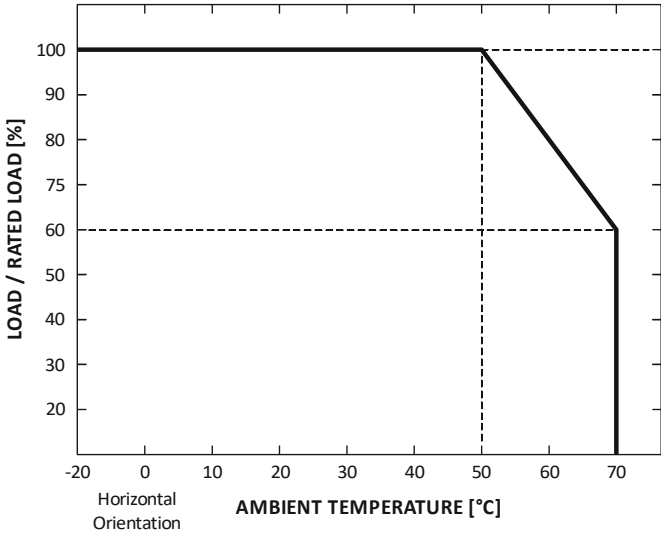
© MECHANICAL SPECIFICATION



PIN ASSIGNMENT

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

ⓈDERATING CURVE



ⓈSTATIC CHARACTERISTIC

