

# POS-200-C series

200W Constant Voltage Low Profile Enclosed Switching Power Supply



## ■ Features:

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



## © ELECTRICAL SPECIFICATION

MODEL	POS-200-12-C	POS-200-24-C
<b>OUTPUT</b>		
Rated Voltage	12V	24V
Voltage Adjustment	11 ÷ 13V	21.6 ÷ 26.4V
Rated Current	17.0A	8.8A
Current Range	0 ÷ 17.0A	0 ÷ 8.8A
Rated Power	204W	211.2W
Line Regulation	± 0.5%	± 0.5%
Load Regulation	± 1%	± 0.5%
Voltage Tolerance [3]	± 1.5%	± 1%
Ripple & Noise (max.) [2]	150mV <sub>p-p</sub>	150mV <sub>p-p</sub>
Setup, Rise Time [4]	1300ms, 50ms / 230VAC at full load	1300ms, 30ms / 230VAC at full load
Hold up Time (typ.)	16ms / 230VAC at full load	
<b>INPUT</b>		
Voltage Range	90 ÷ 132VAC, 180 ÷ 264VAC (selectable by switch)	
Frequency Range	47 ÷ 63Hz	
Power Factor (typ.)	PF > 0.6 / 230VAC at full load	
Efficiency (typ.)	86%	89.5%
AC current (typ.)	2.5A / 230VAC, 4.0A / 115VAC	
Inrush current (max.)	60A / 230VAC(25°C)	
No Load Power Consumption (max.)	0.75W	
<b>PROTECTIONS</b>		
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.	
Over Temperature	Type: hiccup mode. Recovers automatically after fault condition is removed.	
<b>WORKING ENVIRONMENT</b>		
Working Temperature	-20°C ÷ +70°C (refer to Derating Curve)	
Working Humidity	20 ÷ 90% RH non-condensing	
Storage Temperature and Humidity	-40°C ÷ +85°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

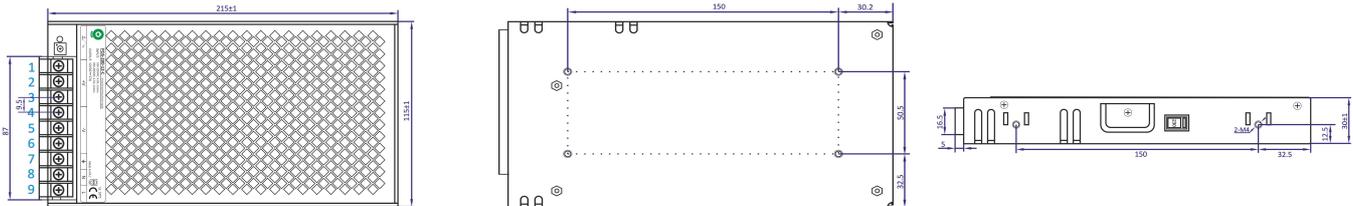
<b>Dimensions</b>	215 x 115 x 30mm (L x W x H)
<b>Weight and Packing</b>	12V: 0.71kg; 20pcs./ctn; ctn weight and dimensions: 16.2kg; 39 x 35.2 x 22.8cm
	24V: 0.7kg; 39pcs./ctn; ctn weight and dimensions: 26.5kg; 46 x 37 x 23cm

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.

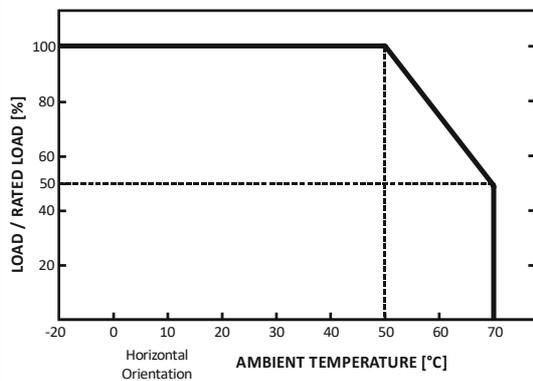
## Ⓢ MECHANICAL SPECIFICATION



## 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	SVR1	Output voltage adjustment

## Ⓢ DERATING CURVE



## Ⓢ STATIC CHARACTERISTIC

