

# POSB12050A series

12V / 0.5A Wall mounted type AC/DC adaptor



## ■ Features:

- Universal AC input / Full range
- ErP step II / CEC level VI compliance
- No load power consumption  $P < 0.075W$
- Protections: Overload / Short circuit / Over Voltage



## ELECTRICAL SPECIFICATION

<b>MODEL</b>	POSB 12050A
<b>OUTPUT</b>	
<i>Rated Voltage</i>	12V
<i>Rated Current</i>	0.5A
<i>Current Range</i>	0 ÷ 0.5A
<i>Rated Power</i>	6W
<i>Line Regulation</i>	± 1%
<i>Load Regulation</i>	± 2%
<i>Tolerance</i>	± 8%
<i>Ripple &amp; Noise (max.)</i>	120mV <sub>p-p</sub>
<i>Setup, Rise Time</i>	5000ms, 30ms / 230VAC at full load
<i>Hold up Time (typ.)</i>	4ms / 230VAC at full load
<b>INPUT</b>	
<i>Voltage Range</i>	90 ÷ 264VAC
<i>Frequency Range</i>	47 ÷ 63Hz
<i>Efficiency (typ.)</i>	80,14%
<i>AC Current (typ.)</i>	0.3A / 230VAC
<i>No load Power Consumption (max.)</i>	0.075W
<b>PROTECTIONS</b>	
<i>Overload</i>	Range: 105-200% Auto-recovery.
<i>Short Circuit</i>	Type: hiccup mode, auto-recovery.
<i>Over Voltage</i>	Type: auto-recovery.

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## WORKING ENVIRONMENT

<b>Working Temperature</b>	0°C ÷ 45°C
<b>Working Humidity</b>	5 ÷ 90% RH non-condensing
<b>Storage Temperature and Humidity</b>	-20°C ÷ 85°C, 5 ÷ 90% RH non-condensing

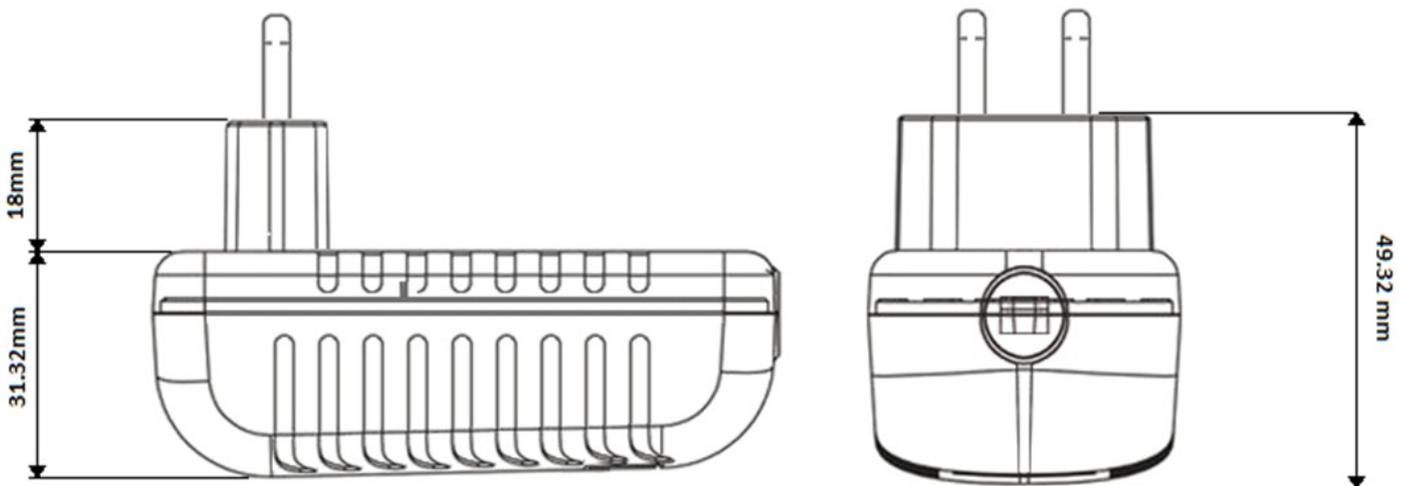
## SAFETY and EMC REGULATIONS

<b>Safety Standards</b>	Compliance to EN 62368
<b>Withstand Voltage</b>	IN/OUT: 3.6kVAC
<b>Isolation Resistance</b>	IN/OUT: 50MΩ/500VDC/25°C/70%
<b>EMC Emission</b>	Compliance to EN55032
<b>EMC Immunity</b>	Compliance to EN61000-4-2, -3, -4, -5
<b>Harmonic Current</b>	Compliance to EN61000-3-3; EN61000-3-2

## OTHERS

<b>DC wire and plug</b>	Wire: 24AWG*2C, length = 1200mm	Plug: 2.1/5.5, positive inside
<b>Net Weight / Dimensions</b>	80,2g / 67 x 38 x 74mm (L x W x H)	

## MECHANICAL SPECIFICATION

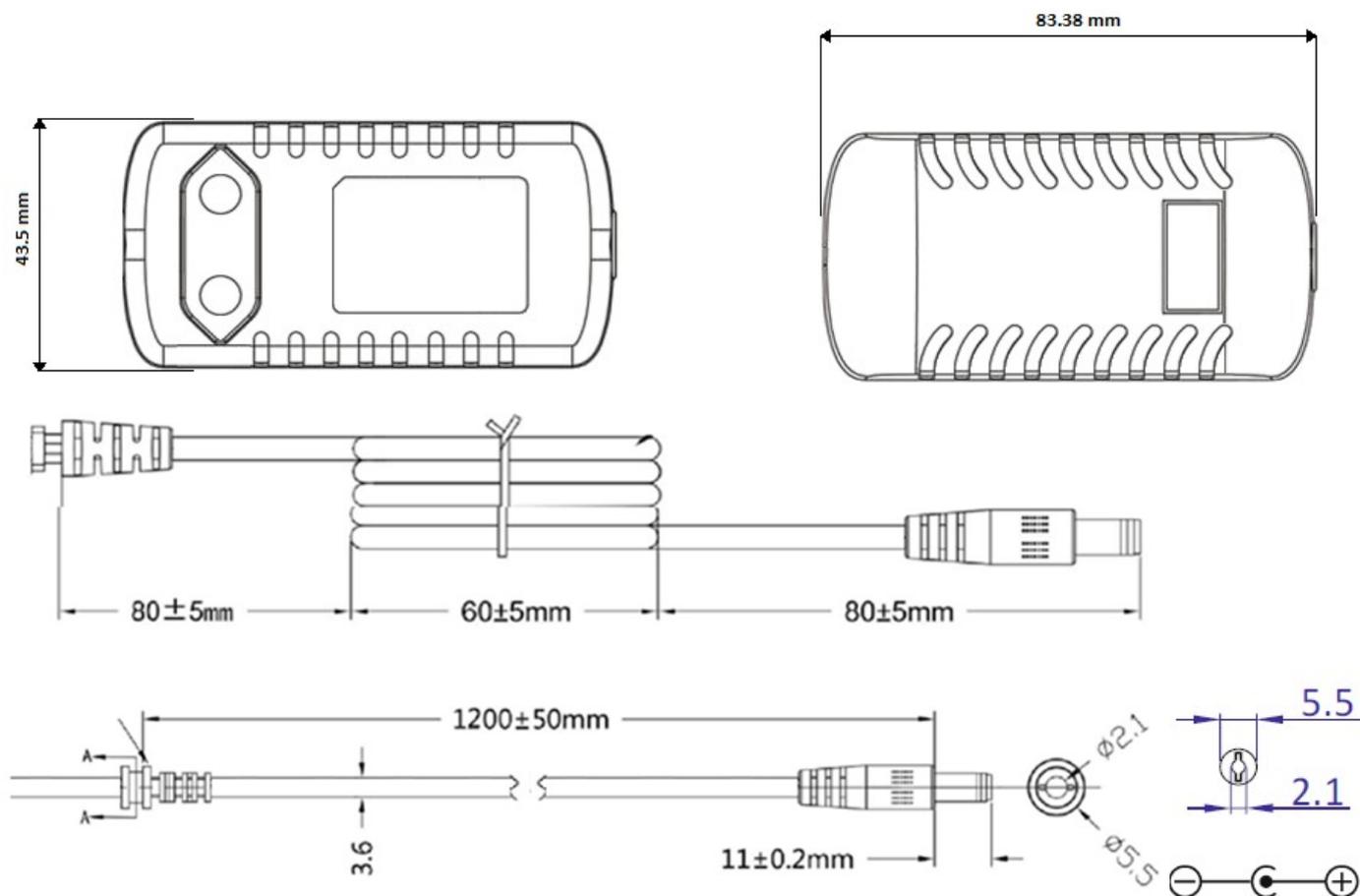


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## MECHANICAL SPECIFICATION: DC wire and plug



*MODEL	DC PLUG	X [mm]	Y [mm]	Polarity
POSB12050A	5.5x2.1mm	5.5	2.1	center positive
POSB12050A-25	5.5x2.5mm	5.5	2.5	center positive
POSB12050A-13	3.5x1.3mm	3.5	1.3	center positive
POSB12050A-40	4.0x1.7mm	4.0	1.7	center positive
POSB12050A-48	4.8x1.7mm	4.8	1.7	center positive
POSB12050A-CN	5.5x2.1mm	5.5	2.1	center negative
POSB12050A-25-CN	5.5x2.5mm	5.5	2.5	center negative
POSB12050A-13-CN	3.5x1.3mm	3.5	1.3	center negative
POSB12050A-40-CN	4.0x1.7mm	4.0	1.7	center negative
POSB12050A-48-CN	4.8x1.7mm	4.8	1.7	center negative

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 / 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.