

# POSB12300A series

12V / 3A Wall mounted type AC/DC adaptor



- 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 12300A
<b>OUTPUT</b>	
<b>Rated Voltage</b>	12V
<b>Rated Current</b>	3A
<b>Current Range</b>	0 ÷ 3A
<b>Rated Power</b>	36W
<b>Line Regulation</b>	± 2%
<b>Load Regulation</b>	± 5%
<b>Tolerance</b>	± 8%
<b>Ripple &amp; Noise (max.)</b>	150mV <sub>p-p</sub>
<b>Setup, Rise Time</b>	1000ms, 20ms / 230VAC at full load
<b>Hold up Time (typ.)</b>	10ms / 230VAC at full load

<b>INPUT</b>	
<b>Voltage Range</b>	90 ÷ 264VAC
<b>Frequency Range</b>	47 ÷ 63Hz
<b>Efficiency (typ.)</b>	80.73%
<b>AC Current (typ.)</b>	0.2A / 230VAC
<b>No load Power Consumption (max.)</b>	0.075W

<b>PROTECTIONS</b>	
<b>Overload</b>	Range: 140-180% Type: fold forward mode(current rises, voltage drops) to 3V next hiccup mode, auto-recovery.
<b>Short Circuit</b>	Type: hiccup mode, auto-recovery.
<b>Over Voltage</b>	Type: auto-recovery.
<b>Over Temperature</b>	140°C±10°C(detect on main control IC)

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## WORKING ENVIRONMENT

<b>Working Temperature</b>	-10°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

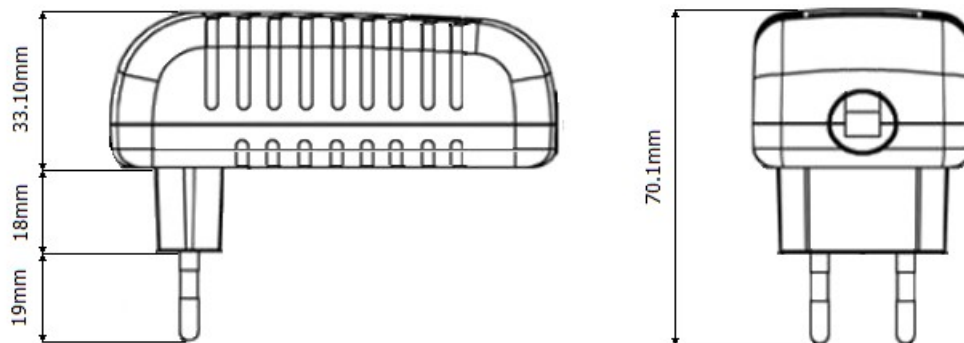
## SAFETY and EMC REGULATIONS

<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: 20AWG*2C, length = 1200mm	Plug: 2.1/5.5, positive inside
<b>Net Weight / Dimensions</b>	118g / 93.58 x 46.57 x 70.1mm (L x W x H)	

## MECHANICAL SPECIFICATION

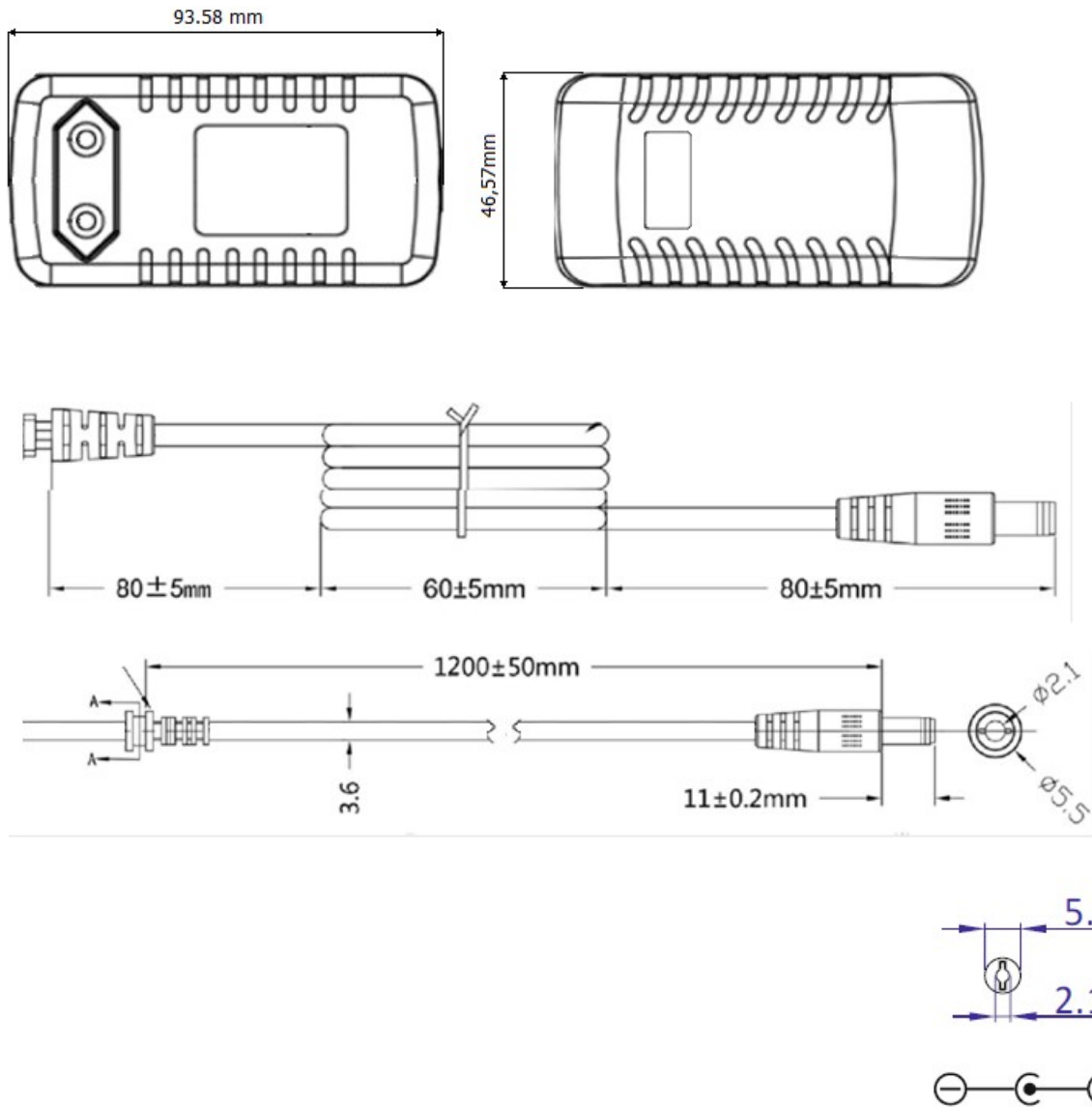


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## MECHANICAL SPECIFICATION: DC wire and plug



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.