

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



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

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

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

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WORKING ENVIRONMENT

Working Temperature	-10°C ÷ 45°C
Working Humidity	5 ÷ 90% RH non-condensing
Storage Temperature and Humidity	-20°C ÷ 85°C, 5 ÷ 90% RH non-condensing

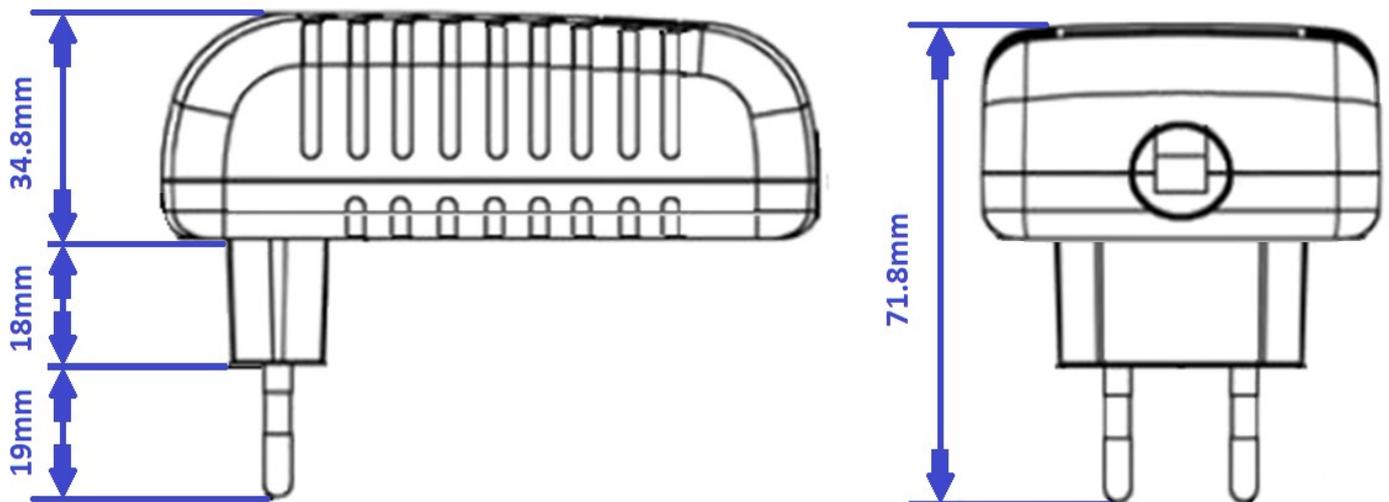
SAFETY and EMC REGULATIONS

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

OTHERS

DC wire and plug	Wire: 20AWG*2C, length = 1200mm	Plug: 2.1/5.5, positive inside
Net Weight / Dimensions	155g / 108 x 50 x 71.8mm (L x W x H)	

MECHANICAL SPECIFICATION

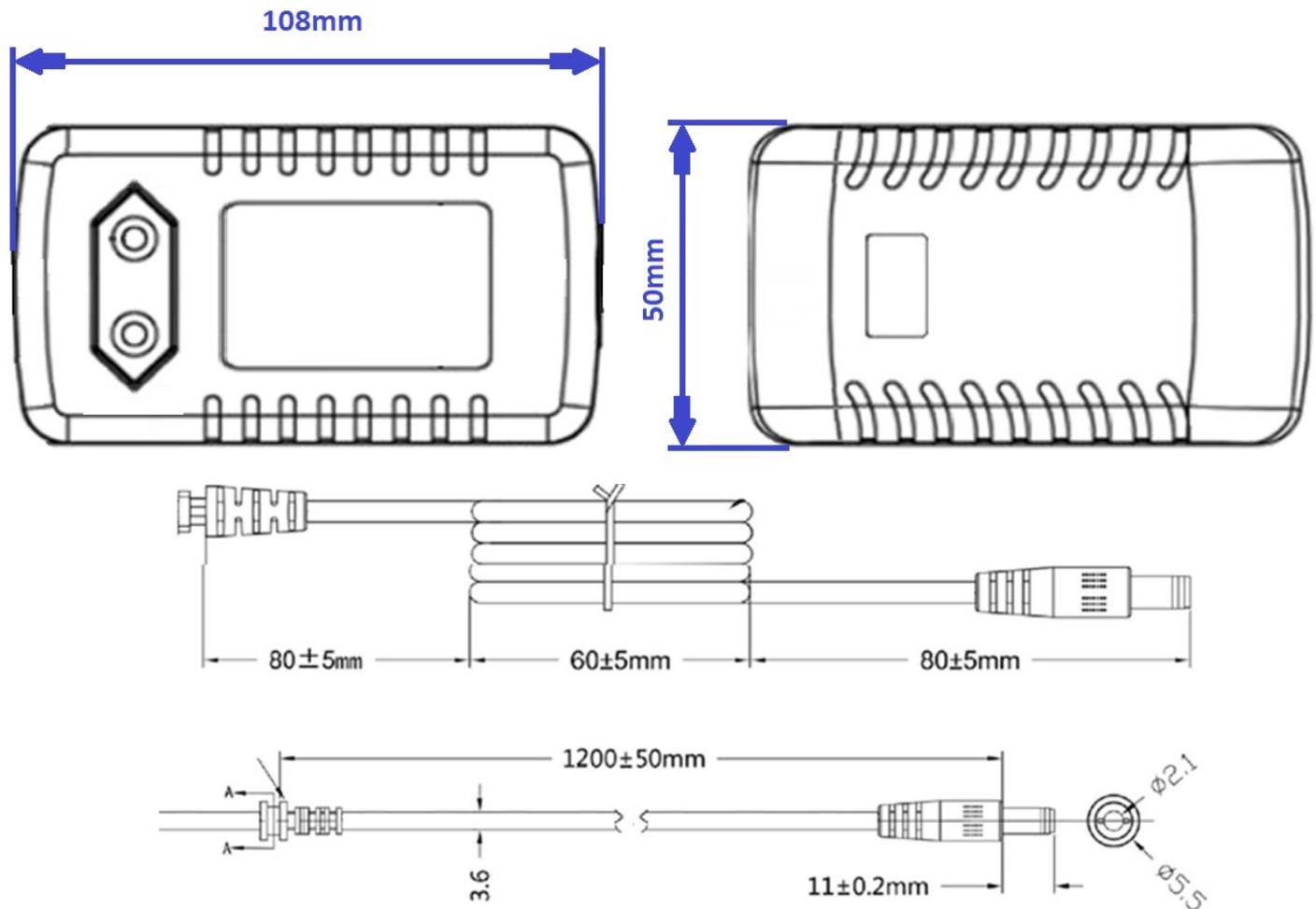


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MECHANICAL SPECIFICATION: DC wire and plug



*MODEL	DC PLUG	X [mm]	Y [mm]	Polarity
POSB12300A	5.5x2.1mm	5.5	2.1	center positive
POSB12300A-25	5.5x2.5mm	5.5	2.5	center positive
POSB12300A-13	3.5x1.3mm	3.5	1.3	center positive
POSB12300A-40	4.0x1.7mm	4.0	1.7	center positive
POSB12300A-48	4.8x1.7mm	4.8	1.7	center positive
POSB12300A-CN	5.5x2.1mm	5.5	2.1	center negative
POSB12300A-25-CN	5.5x2.5mm	5.5	2.5	center negative
POSB12300A-13-CN	3.5x1.3mm	3.5	1.3	center negative
POSB12300A-40-CN	4.0x1.7mm	4.0	1.7	center negative
POSB12300A-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 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.