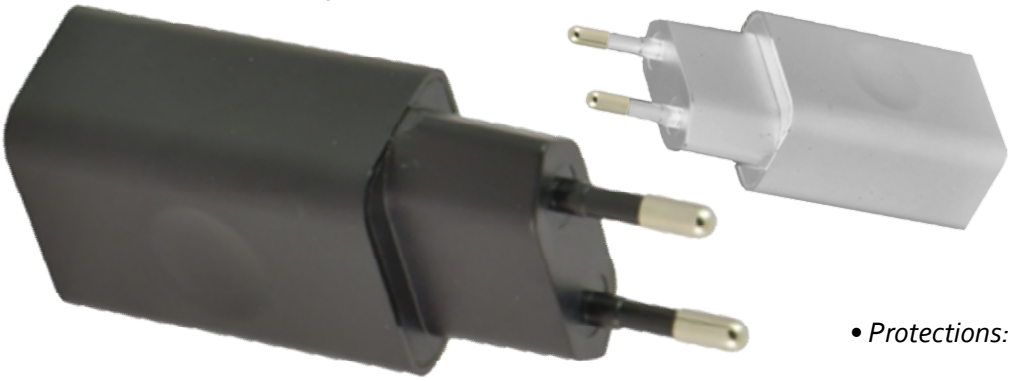
# POSC05100A-USB series

*5V / 1A Wall mounted type AC/DC adaptor*



## ■ Features:

- *Universal AC input / Full range*
- *ErP step II / CEC level VI compliance*
- *MTBF > 100.000 h*
- *Protections: Overload / Short circuit / Over Voltage*

CONSTANT VOLTAGE

## ELECTRICAL SPECIFICATION

| MODEL | POSC05100A-USB, POSC05100A-WH-USB |
|---|---|
| **OUTPUT** | |
| *Rated Voltage* | 5V |
| *Rated Current* | 1A |
| *Current Range* | 0 ÷ 1A |
| *Rated Power* | 5W |
| *Line Regulation* | ± 5% |
| *Load Regulation* | ± 5% |
| *Tolerance [3]* | ± 8% |
| *Ripple & Noise (max.) [2]* | $120mV_{P-P}$ |
| *Rise Time [4]* | 80ms / 230VAC at 10% to 90% load |
| *Hold up Time (typ.)* | 3ms / 230VAC at full load |
| **INPUT** | |
| *Voltage Range* | 90 ÷ 264VAC |
| *Frequency Range* | 47 ÷ 63Hz |
| *Efiiciency (typ.)* | 73.62% - Input115/230Vac / Average（25%+50%+75%+100%）/4 |
| *AC Current (typ.)* | 0.2A / 230VAC |
| *No load Power Consumption (max.)* | <0.10W |
| **PROTECTIONS** | |
| *Overload* | 1.1A-1.56A |
| | Auto-recovery. |
| *Short Circuit* | Type: hiccup mode, auto-recovery. |
| *Over Voltage* | Type: auto-recovery. |



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## WORKING ENVIRONMENT

| | |
|---|---|
| ***Working Temperature*** | -5°C ÷ 40°C |
| ***Working Humidity*** | 5 ÷ 95% RH non-condensing |
| ***Storage Temperature and Humidity*** | -40°C ÷ 85°C, 5 ÷ 90% RH non-condensing |

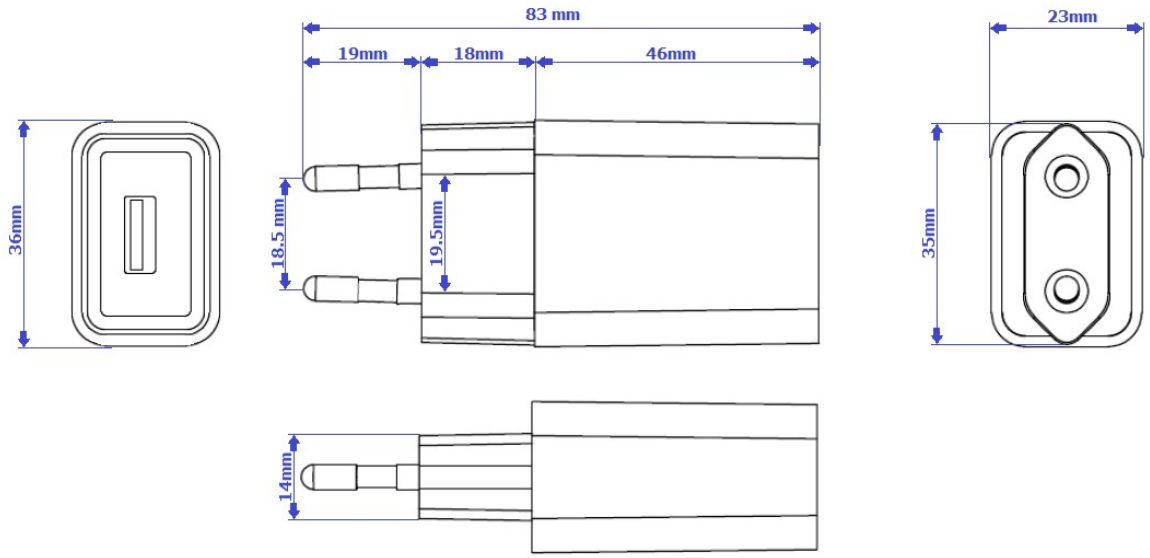
## SAFETY and EMC REGULATIONS

| | |
|---|---|
| ***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*** | - | Socket: USB |
| ***Net Weight / Dimensions*** | 82g / 83 x 36 x 24mm (L x W x H) | |

## MECHANICAL SPECIFICATION




*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.*