

# POSC12750D-C14 series

12V / 7.5A Desktop type AC/DC adaptor



## ■ Features:

- Universal AC input / Full range
- ErP step II / CEC level VI compliance
- MTBF >100.000h

• Protections: Overload / Short circuit / Over Voltage



## ELECTRICAL SPECIFICATION

| MODEL | POSC 12750D-C14 |
|-------|-----------------|
|-------|-----------------|

### OUTPUT

|                       |                                 |
|-----------------------|---------------------------------|
| Rated Voltage         | 12V                             |
| Rated Current         | 7.5A                            |
| Current Range         | 0 ÷ 7.5A                        |
| Rated Power           | 90W                             |
| Line Regulation       | ± 5%                            |
| Load Regulation       | ± 5%                            |
| Tolerance             | ± 8%                            |
| Ripple & Noise (max.) | 200mV <sub>p-p</sub>            |
| Rise Time             | Max 100ms / 230VAC at full load |
| Hold up Time (typ.)   | 3ms / 230VAC at full load       |

### INPUT

|                                  |                                                        |
|----------------------------------|--------------------------------------------------------|
| Voltage Range                    | 90 ÷ 264VAC                                            |
| Frequency Range                  | 47 ÷ 63Hz                                              |
| Efficiency (typ.)                | 87.63% - Input115/230Vac/Average (25%+50%+75%+100%) /4 |
| AC Current (typ.)                | 1.8A / 230VAC                                          |
| No load Power Consumption (max.) | <0.21W                                                 |

### PROTECTIONS

|                         |                                   |
|-------------------------|-----------------------------------|
| Over Current Protection | 8.22A-13.5A<br>Auto-recovery.     |
| Short Circuit           | Type: hiccup mode, auto-recovery. |
| Over Voltage            | Type: auto-recovery.              |

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## WORKING ENVIRONMENT

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

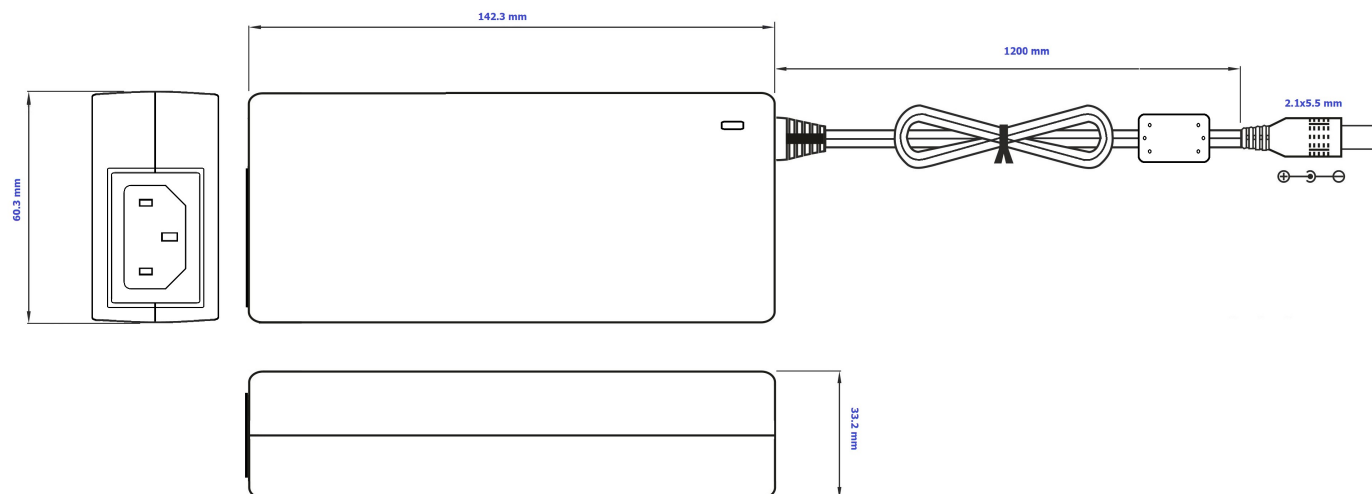
## SAFETY and EMC REGULATIONS

|                             |                                        |
|-----------------------------|----------------------------------------|
| <b>Safety Standards</b>     | Compliance to EN 62368                 |
| <b>Withstand Voltage</b>    | IN/OUT: 1.5kVAC                        |
| <b>Isolation Resistance</b> | IN/OUT: 100MΩ/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: 16AWG*2C, length = 1200mm          | Plug: 2.1/5.5, positive inside |
| <b>Net Weight / Dimensions</b> | 449g / 142.3 x 60.3 x 33.2mm (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.