

## General description

The E2xFxW3 30W family of switch mode power supplies delivers typically 30W output and features wide-range input (90-264V), small size and light weight.

The units are available in EU, UK, US, Australia, changeable plug and desktop housing to fit major markets, others can be tooled on request.

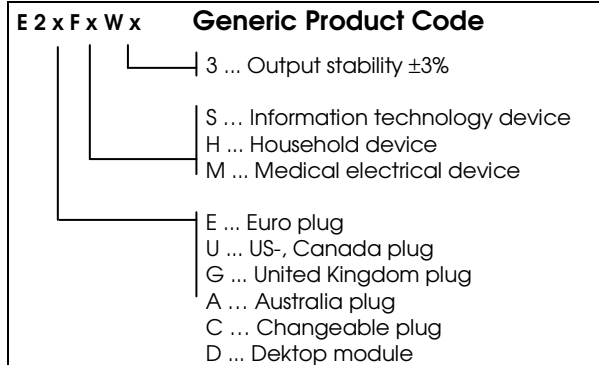
Output voltage is fixed with a tolerance of  $\pm 3\%$  on PCB (1% tolerance and current regulation on request). Output voltages are available between 5V and 24V DC. Secondary plug is available in different forms. The power supply is for indoor use only.

## Features

- **EuP Tier II conform**
- **Medical approved according IEC60601-1 3<sup>rd</sup> edition - fulfils patient contact requirements to maximum 24W output power**
- Wide input range (90-264V)
- Output voltage fixed (5-24VDC)
- Output voltage stability  $\pm 3\%$  at PCB (1% on request)
- Output power 30W
- Protection class II
- Europe , UK, US, Australia, Desktop, Changeable plug (other on request)
- Secondary plug customer specific possible
- Manufacturing according to ISO 9001
- Short circuit proof

## The power supply is available for 3 different application areas

- Information technology equipment area
- Household device area
- Medical electrical equipment area

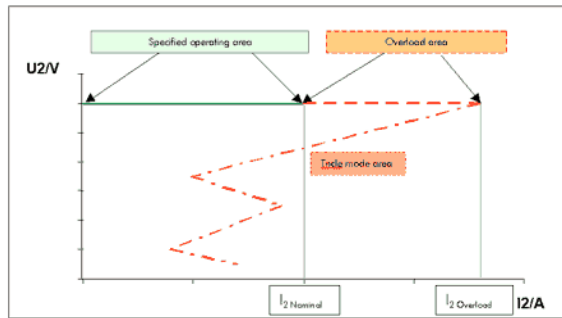


| Dimensions               | Length | Width | Height |    |
|--------------------------|--------|-------|--------|----|
| 30W Wall Plug IN Housing | 105    | 42    | 37     | mm |
| Desktop Housing          | 110    | 54    | 38     | mm |

| Input Parameter | Key            | Min                   | Typ | Max | Unit |
|-----------------|----------------|-----------------------|-----|-----|------|
| Input voltage   | U <sub>1</sub> | 90                    |     | 264 | V    |
| Input current   | I <sub>1</sub> | 3                     | 300 | 700 | mA   |
| Input frequency | f <sub>1</sub> | 47                    | 50  | 63  | Hz   |
| Op. Temperature | T              | 0                     |     | 40  | °C   |
| Efficiency      | $\eta$         |                       | 87  |     | %    |
|                 |                | According EuP Tier II |     |     |      |


































| Output Parameter  | Key              | Min | Typ | Max                                    | Unit   |
|---|------------------|-----|-----|--|--------|
| Output Power  | P <sub>2</sub>   |     |     | 30                                     | W      |
| Output Voltage  | U <sub>2</sub>   | 5   |     | 24                                     | V      |
| Output current  | I <sub>2</sub>   |     |     | 3                                      | A      |
| Ripple voltage  | U <sub>RMS</sub> |     |     | 50                                     | mV RMS |
| Output voltage tolerance at PCB   | T <sub>U2</sub>  |     |     | 3                                      | %      |
| Output voltage tolerance with EGSTON standard cable 1,5m/0,5mm <sup>2</sup> | T <sub>U2</sub>  |     |     | 5-12,9V:<br>+3/-10<br>13-24V:<br>+3/-5 | %      |

### Typical output chart



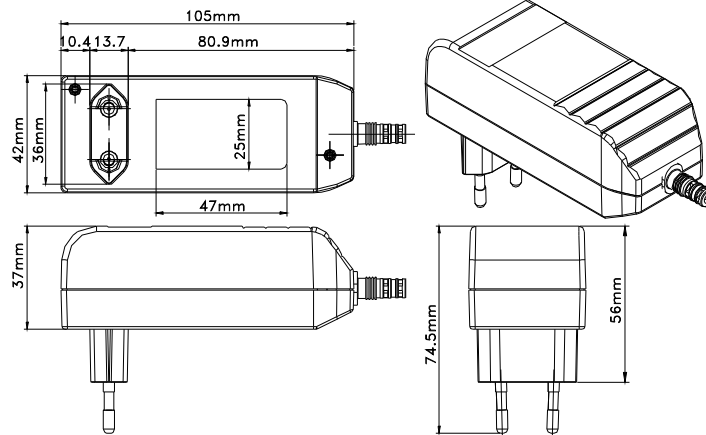
### Test standards and approvals

| Test standards   |   |
|--|---|
| EN 60950<br>UL 1310<br>EN 61000-6-1<br>EN 55022<br>EN 55011<br>EN 55014-1                      | <b>Information technology equipment</b>                         |
| EN 60335<br>EN 61558<br>UL 1310<br>EN 61000-6-1<br>EN 55022<br>EN 55011<br>EN 55014-1          | <b>Household devices</b>  |
| EN 60601-1<br>UL 60601-1<br>EN 60601-1-2<br>EN 61000-6-1<br>EN 55022<br>EN 55011<br>EN 55014-1 | <b>Medical electrical equipment up to max. 24W output power</b> |

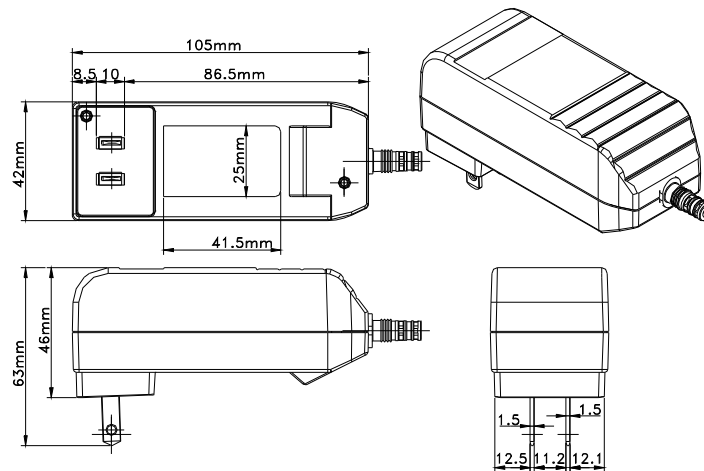
| Housing           | Approvals  |   |   |
|-------------------|--|---|---|
|                   | Information technology equipment   | Household devices   | Medical electrical equipment  |
| EU, UK:           | <br>   | <br>  | <br>  |
| US, Canada:       | <br>   | <br>  | <br>  |
| Desktop           | <br><br><br>Australian Government approval     | <br><br><br>Australian Government approval     | <br><br><br>Australian Government approval     |
| Australia:        | <br>Australian Government approval   | <br>Australian Government approval   | <br>Australian Government approval   |
| Change able plug: | <br><br><br>Australian Government approval | <br><br><br>Australian Government approval | <br><br><br>Australian Government approval |

**Housing Dimension**

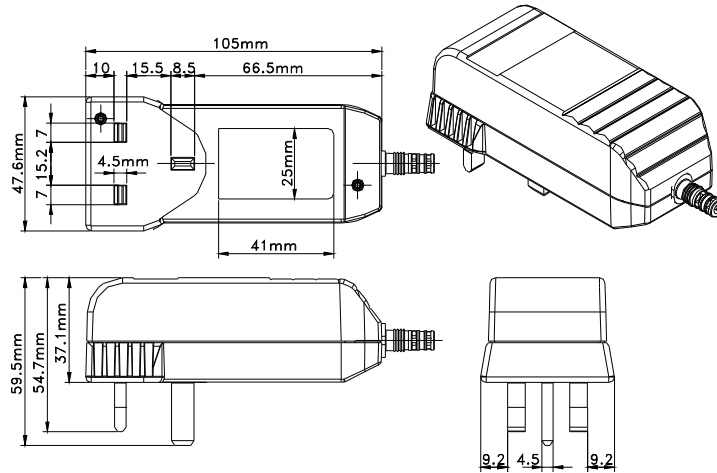
Euro Housing:



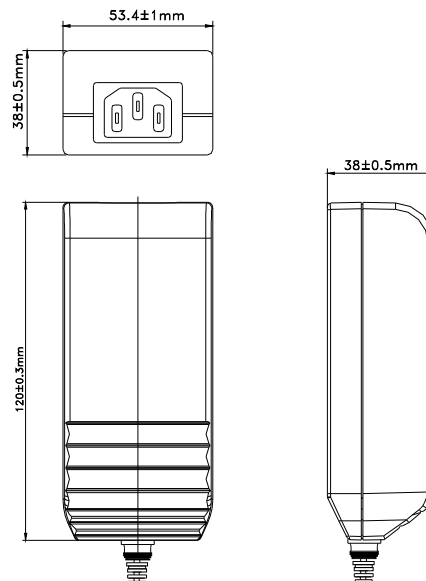
US Housing:



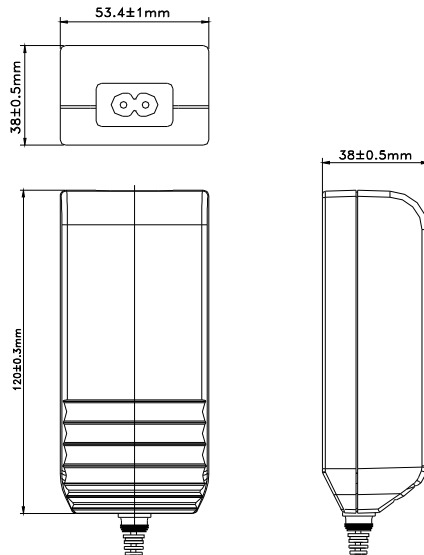
UK Housing:



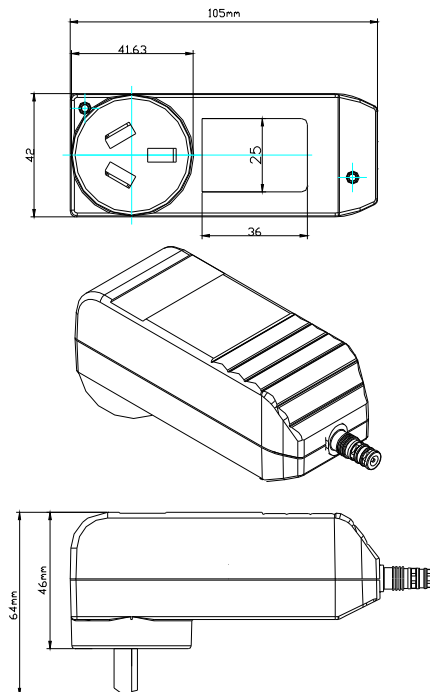
Desktop Housing with IEC 320 C14 primary plug:



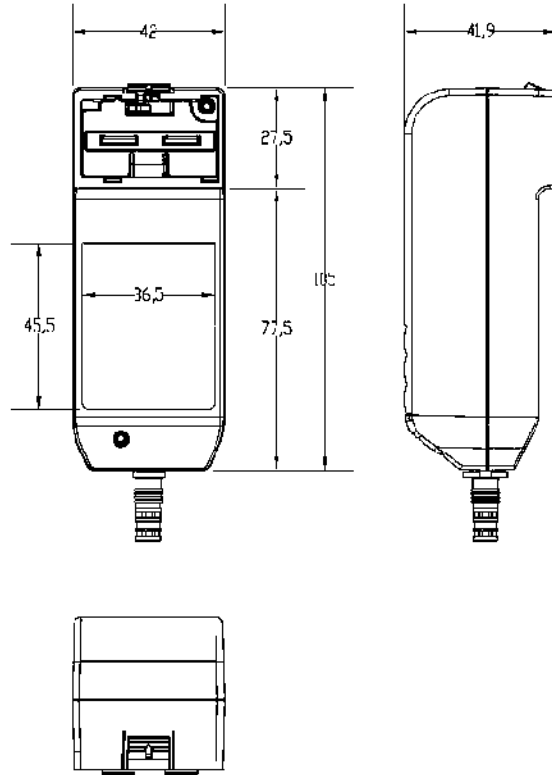
Desktop Housing with IEC 320 C8 primary plug:



Australia Housing:

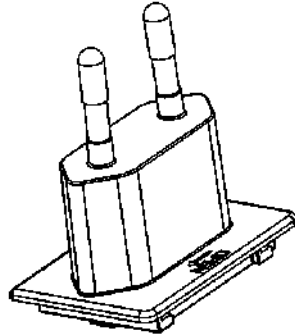


Changeable plug Housing:

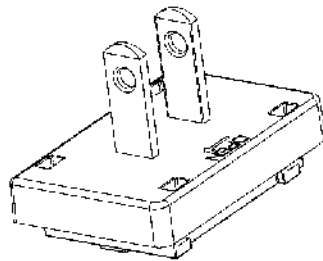


Changeable plugs:

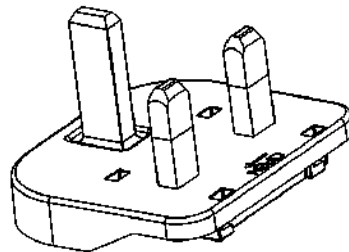
*EU Plug according: EN50075*



*US Plug according: UL1310*



*UK Plug according: BS1363*



*Australia Plug according: AS/NZS 3112*

