

General description

The E2xFxW3 12W family of switch mode power supplies delivers typically 12W output and features wide-range input (90-264V), small size and light weight.

The units are available in EU, UK, US, 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.

P 2 x F x W x	Generic Product Code
	3 ... Output stability $\pm 3\%$
	S ... Information technology device
	H ... Household device
	M ... Medical electrical device
	E ... Euro plug
	U ... US-, Canada plug
	G ... United Kingdom plug
	C ... Changeable plug
	D ... Desktop module



Features

- **EuP Tier II conform**
- **Medical approved according IEC60601-1 3rd edition - fulfils patient contact requirements to maximum 8W output power**
- Wide input range (90-264V)
- Output voltage fixed (5-24VDC)
- Output voltage stability $\pm 3\%$ at PCB (1% on request)
- Output power 12W
- Protection class II
- Europe , UK, US, Desktop, Changeable plug (other on request)
- Secondary plug customer specific possible
- Manufacturing according to ISO 9001
- Short circuit proof

Dimensions	Length	Width	Height	
12W Wall plug in Housing	95	42	29,5	mm
Desktop Housing	110	53,4	38	mm

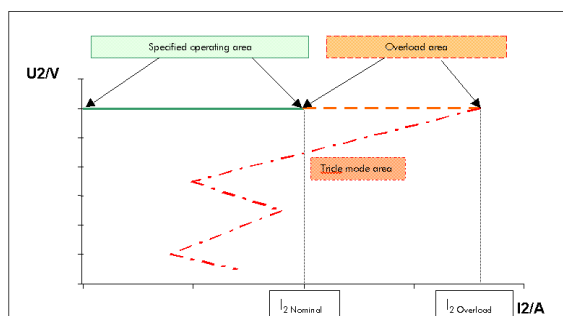
Input Parameter	Key	Min	Typ	Max	Unit
Input voltage	U ₁	90		264	V
Input current	I ₁	1	120	300	mA
Input frequency	f ₁	47	50	63	Hz
Op. Temperature	T	0		40	°C
Efficiency	η		82		%
According EuP Tier II					

The power supply is available for 3 different application areas

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

Output Parameter	Key	Min	Typ	Max	Unit
Output Power	P ₂			12	W
Output Voltage	U ₂	5		24	V
Output current	I ₂			1,2	A
Ripple voltage	U _{RMS}			50	mV RMS
Output voltage tolerance at PCB	T _{U2}			3	%
Output voltage tolerance with EGSTON standard cable 1,5m/0,5mm ²	T _{U2}			5-6,9V: +3/-6 7-24V: +3/-5	%

Typical output chart



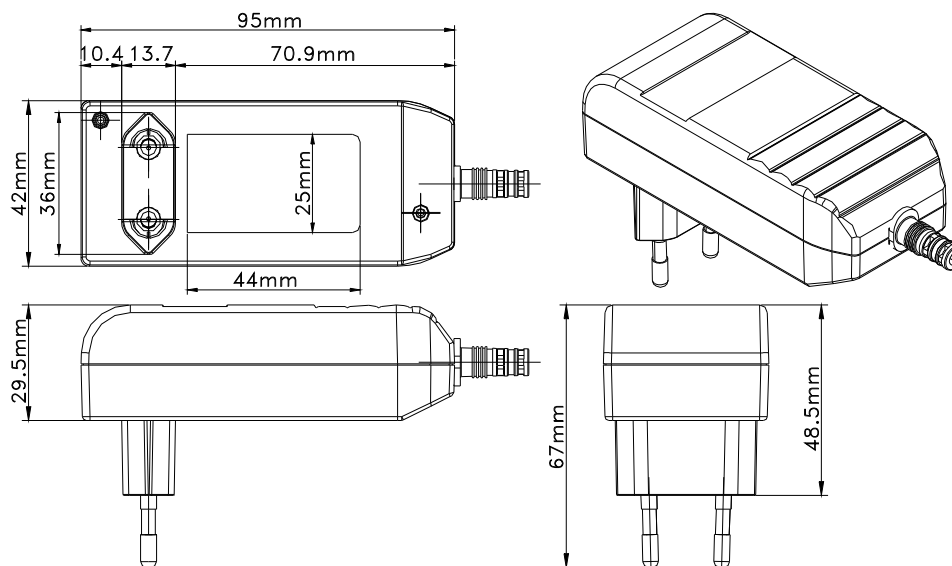
Test standards and approvals

Test standards	
EN 60950 UL 1310 EN 61000-6-1 EN 55022 EN 55011 EN 55014-1	Information technology equipment
EN 60335 EN 61558 UL 1310 EN 61000-6-1 EN 55022 EN 55011 EN 55014-1	Household devices
EN 60601-1 UL 60601-1 EN 60601-1-2 EN 61000-6-1 EN 55022 EN 55011 EN 55014-1	Medical electrical equipment up to max. 8W output power

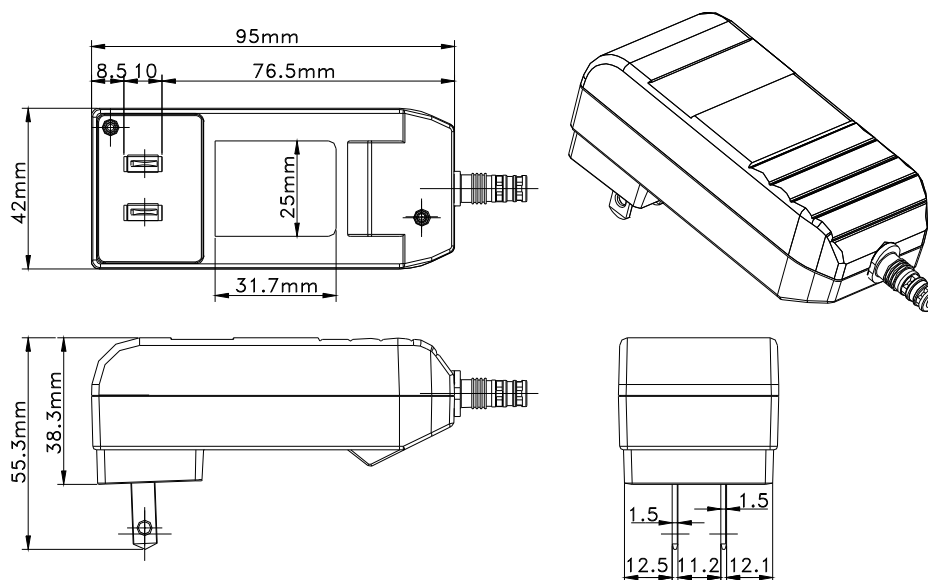
Approvals			
Housing	Information technology equipment	Household devices	Medical electrical equipment
EU, UK:	 		 
US, Canada:	 	 	 
Desktop	   Australian Government approval	   Australian Government approval	   Australian Government approval
Changeable Plug:	   Australian Government approval	   Australian Government approval	   Australian Government approval

Housing Dimension

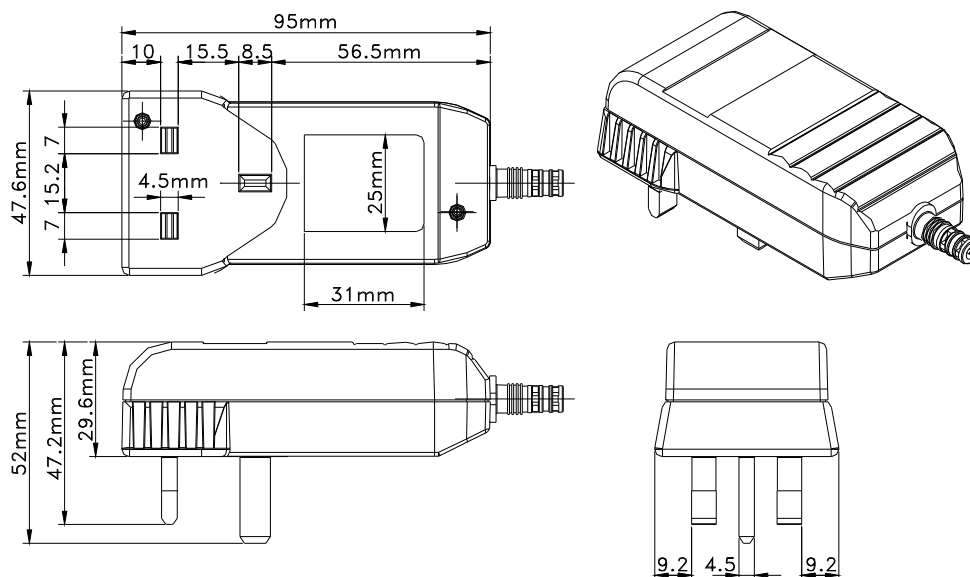
Euro Housing:



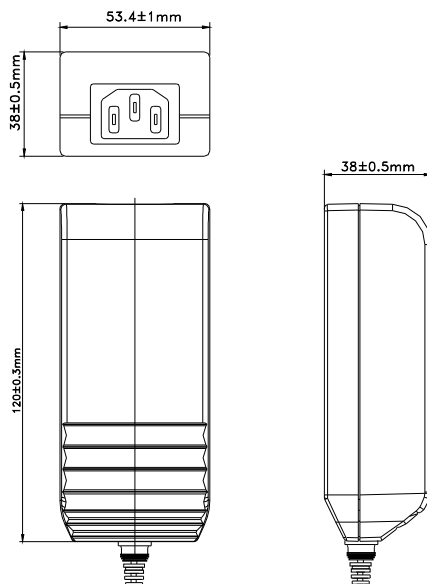
US Housing:



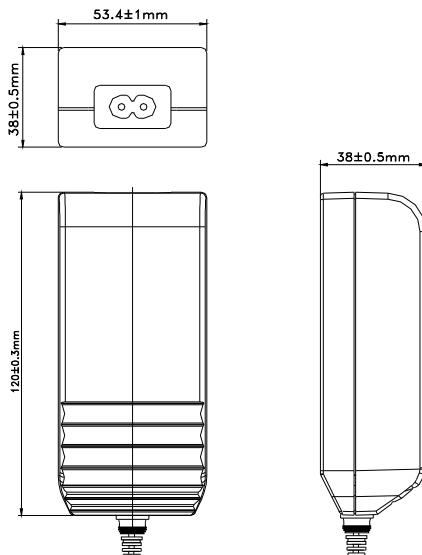
UK Housing:



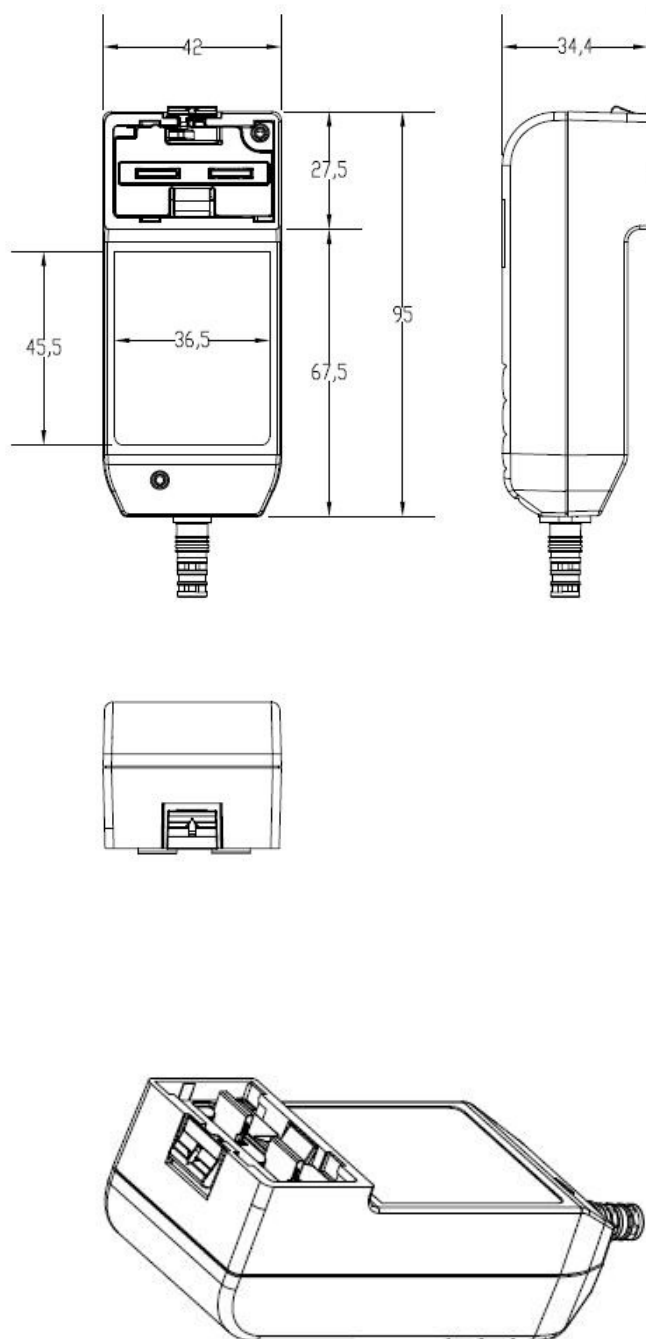
Desktop Housing with IEC 320 C14 primary plug:



Desktop Housing with IEC 320 C8 primary plug:

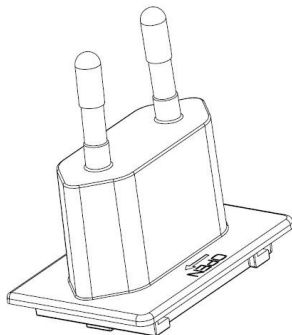


Changeable plug Housing:

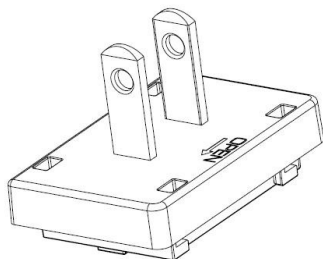


Changeable plugs:

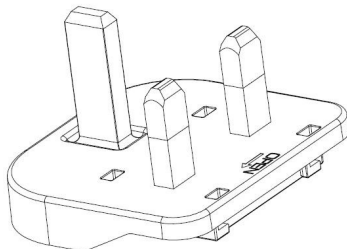
EU Plug according: EN50075



US Plug according: UL1310



UK Plug according: BS1363



Australia Plug according: AS/NZS 3112

