0.5 Watt Low Profile AC-DC Converters

Features:

- 0.5W Low Profile <14.5mm Height
- High Temperature 80°C, 100% Loading
- Single Output - Regulated
- Wide Input Range: 85 - 265VAC, 47 - 63Hz
- Output Range: 3.3V - 48VDC
- Low Standby Power <0.3W
- Fully Isolated Pri - Sec >3600Vrms
- Insulation: Class II
- Materials: UL94-V0
- Safety: EN61558, EN60950, CE

Part Number	Power Rating Watts	Output Voltage (VDC)	Output Current (mA)	Ambient Temp. (°C)	Efficiency Typical	Voltage Range
VTX-214-0005-103	**0.5**	3.3	151	80 (100% Load)	>60%	85 - 265VAC (100-370VDC)
VTX-214-0005-1035	**0.5**	3.5	142			
VTX-214-0005-105	**0.5**	5	100			
VTX-214-0005-106	**0.5**	6	84			
VTX-214-0005-107	**0.5**	7.5	66			
VTX-214-0005-108	**0.5**	8	63			
VTX-214-0005-109	**0.5**	9	55			
VTX-214-0005-110	**0.5**	10	50			
VTX-214-0005-112	**0.5**	12	42			
VTX-214-0005-115	**0.5**	15	33			
VTX-214-0005-118	**0.5**	18	28			
VTX-214-0005-124	**0.5**	24	21			
VTX-214-0005-148	**0.5**	48	10			
Note: Other output voltages are available upon request.						

Optional Universal PCB mounting kit.
Part Number:
VTX-214-PCB1

Farnell Part:
246 4718

Rapid Electronics Part:
84-2157

Please contact Vigortronix for any enquiries. Products can be altered to suit custom requirements.

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Model: 0.5 Watt		Specification
INPUT **Pin 4: L** **Pin 3: N**	Voltage Range	85 ~ 265VAC / 47 ~ 63Hz (100 - 370VDC)
	Current	100mA Max (100VAC) / 70mA Max (240VAC)
	Inrush Current	6A Max (115VAC) / 10A Max (240VAC)
	No Load power	0.3W Max
	Leakage Current	0.2 mA Max
OUTPUT **Pin 2: DC+** **Pin 1: GND**	Voltage Accuracy	<5% (3.3 - 7.5VDC 7%)
	Ripple	<5% Vout (Vp~p, with Output Capacitor)
	Noise	<5% Vout Max (Vp~p, with Output Capacitor)
	Efficiency @ 230VAC	>60%
	Minimum Load	0
Protection	Over Power	Hiccup mode
	Over Voltage	Hiccup mode
	Short Circuit Protection	Hiccup mode
Dielectric Isolation	Input to Output	3000Vrms, 5mA 1 Min (3600VAC, 2sec)
Enviroment	Operating Temperature	-25^{O}C ~ +80^{O}C (See Derating Curve)
	Storage Temperature	-40^{O}C ~ +105^{O}C
	MTBF	>300,000Hrs @ 25^{O}C (MIL-HDBK-217F)
	Weight	18g
Safety	Agency Approval	Compliance with IEC60950-1, EN60950-1, EN61558-1, EN61558-2-6, EN61558-2-17
EMC	EMI	Compliance with EN55022 Class B
	EMS	Compliance with EN55024, EN55014-1, EN55014-2, EN61000-3-2 Class A, EN61000-3-3

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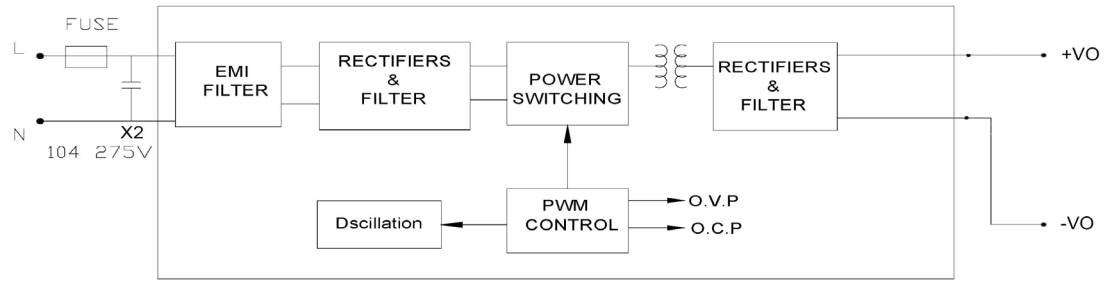
Converter Schematic

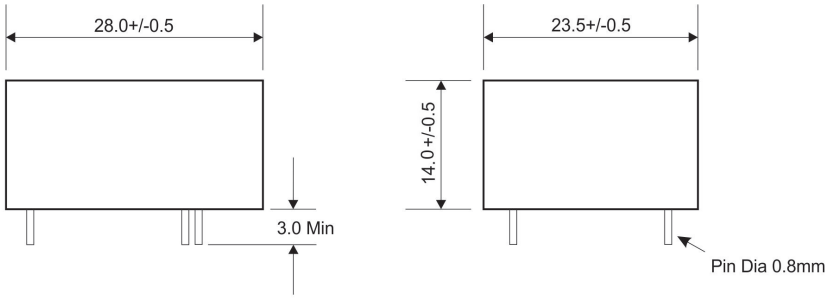


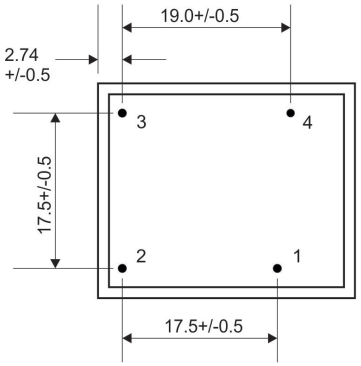
Optional Recommendations:

If required to reduce Ripple/ Noise further on the output, fit a Electrolytic and ceramic Capacitor.

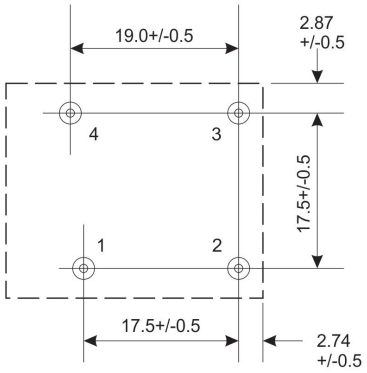
Notes:
The Power Supply is considered a component which will be installed into a final equipment.
It is recommended to fit a 0.1uF/275V X2 Capacitor on the Input for EMC
On the Input to meet safety requirement use a 1A/250V Slow-Blow Fuse

Dimensions:





Bottom Pin View



PCB Top View

Pin Designation.

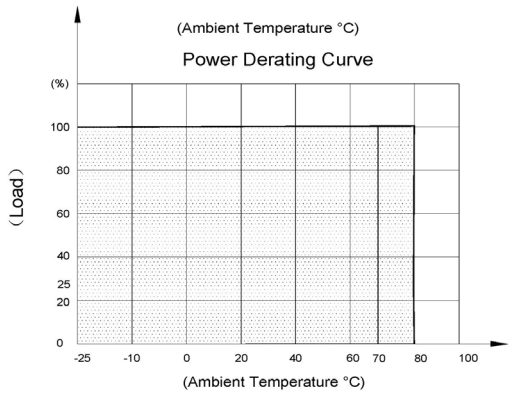
Pin 1: GND, Output Voltage Common
Pin 2: +V, Output Voltage Positive
Pin 3: N, AC Input Neutral
Pin 4: L, AC Input Line

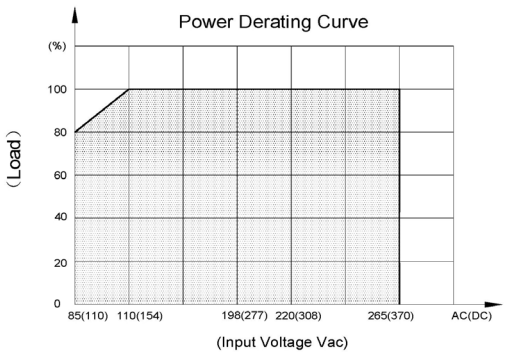
Notes:
Recommended PCB
Hole size: 1.5mm Dia.

Case Outline Maximum Size 29.0 x 24.2mm

Unit weight: 18g

Derating Graph:





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