



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-214-0005-105 | 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.

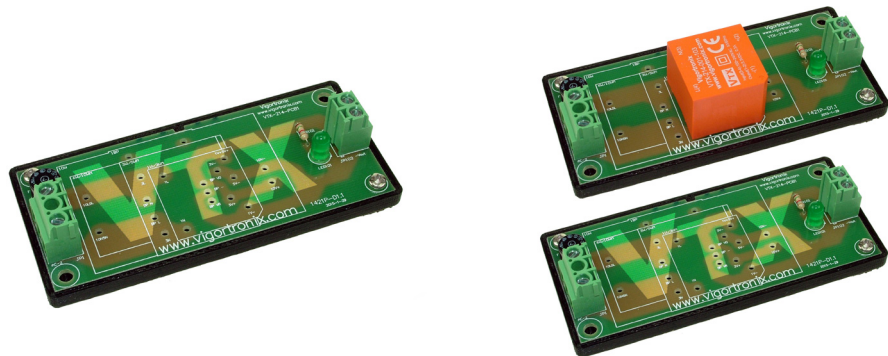
Optional Universal PCB mounting kit.

Part Number:
VTX-214-PCB1

Farnell Part:
246 4718

Rapid Electronics Part:
84-2157

Maplin Part:
N59EC

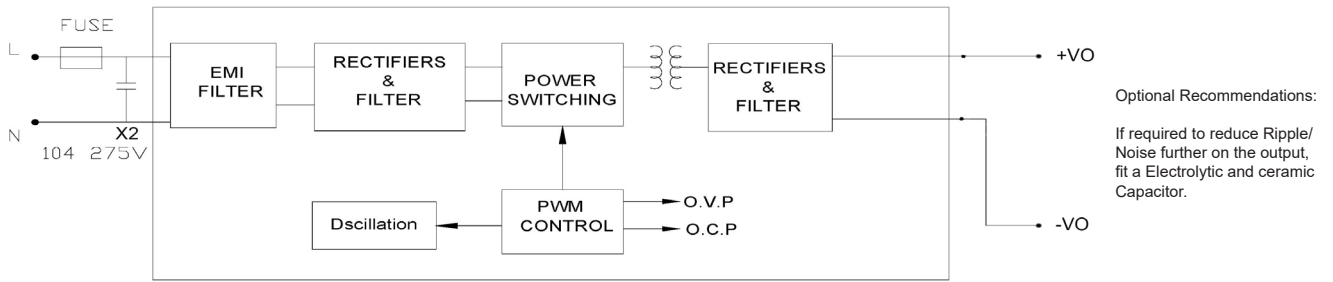


Please contact Vigortronix for any enquiries. Products can be altered to suit custom requirements.
The information contained in this document is subject to change without notice.

| 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) |
| Environment | Operating Temperature | -25°C ~ +80°C (See Derating Curve) |
| | Storage Temperature | -40°C ~ +105°C |
| | MTBF | >300,000Hrs @ 25°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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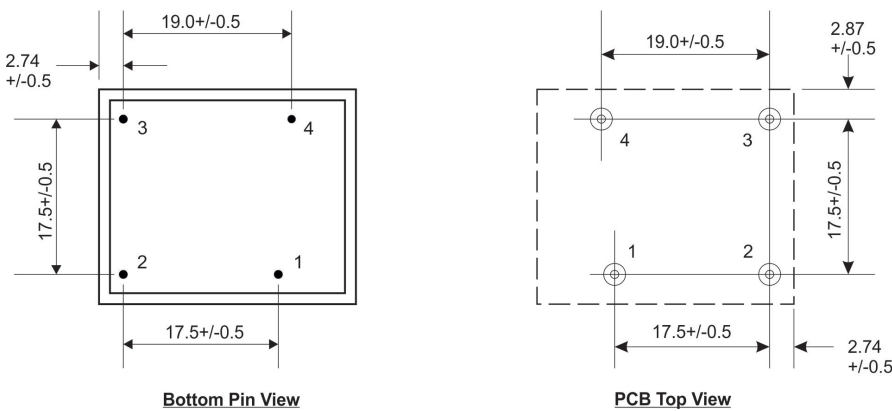
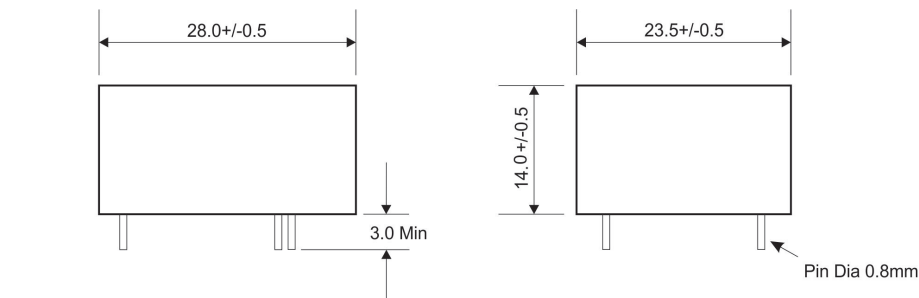
Converter Schematic



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:



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

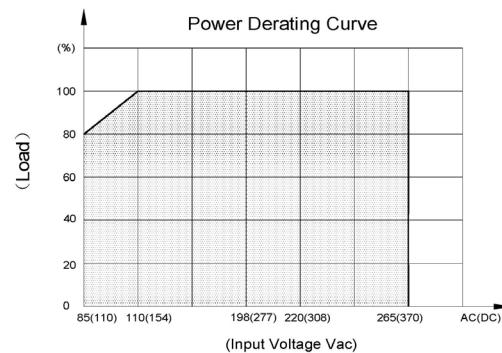
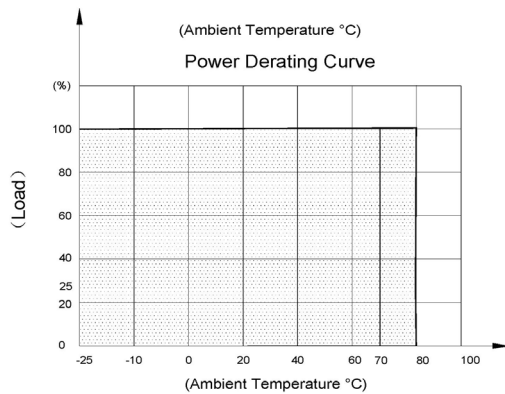
Notes:

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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