



Features:

- 7W Small Compact Size
- Single Output - Regulated
- Output Range: 3.3V - 24VDC
- Low Standby Power <0.15W
- Fully Isolated Pri - Sec >4200Vrms
- Insulation: Class II
- Safety: EN61558, EN60950, CE CB
- Compliance with EN55032 and EN61000-3-2 Class A



Description

VTX-214-007-1## is a PCB mount AC-DC converter. It features a wide AC input 90 - 265VAC / 47 - 63Hz (120VDC - 370VDC). The converters have been designed with low power consumption, high efficiency, high reliability, reinforced isolation. It offers good EMC performance compliant to IEC/EN61000-3 and CISPR32/EN55032. The converters are widely used in industrial power, home appliances, instrumentation, communication and civil applications. For extremely harsh EMC environment, we recommend using the application circuit show in this Datasheet or contact our Technical team for further support.

Selection Guide

Part Number	Power Rating Watts	Output Voltage (VDC)	Output Current (mA)	Ambient Temp. (°C)	Efficiency Typical	Input Range
VTX-214-007-103	7	3.3	2270	50	>74%	85 - 265VAC (120 - 370VDC)
VTX-214-007-105	7	5	1500	70		
VTX-214-007-109	7	9	830			
VTX-214-007-112	7	12	625			
VTX-214-007-115	7	15	500			
VTX-214-007-118	7	18	420			
VTX-214-007-124	7	24	310			

Note: Other output voltages are available upon request.

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.

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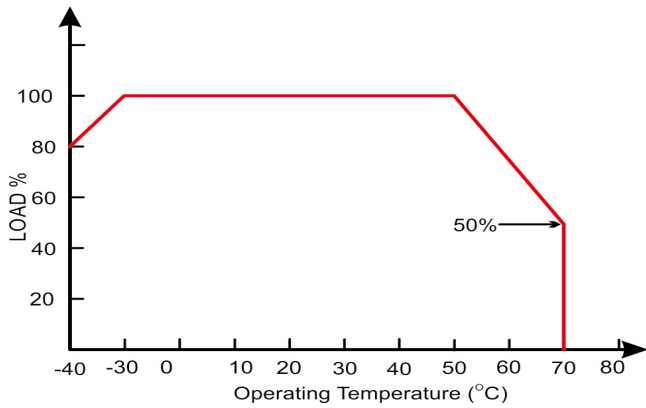
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General Specifications		
Model: 7 Watt		Specification
INPUT	Rated Input Voltage	100 - 240V 50/60Hz
	Voltage Range	90 - 265VAC / 47 - 63Hz (120VDC - 370VDC)
	Current	300mA Typical under Load
	Inrush Current	20A Max (240VAC)
	No Load power	0.15W Max
	Leakage Current	0.3mA Max
OUTPUT	Voltage Accuracy	+/-3%
	Ripple	200mV (Vp-p) Typical
	Noise	<1% Vout Max (Vp-p)
	Efficiency	>74%
	Minimum Load	0
Protection	Over Power	Hiccup mode
	Over Temperature	130-150°C, shut off output voltage, it will recover automatically after the temperature turn to normal
	Short Circuit Protection	Hiccup mode
Dielectric Isolation	Input to Output	4200Vrms, 5mA 1 Min
Environment	Operating Temperature	-20°C - +70°C (Full Load)
	Storage Temperature	-40°C - +105°C
	Humidity	10 - 95% RH
	MTBF	>550,000Hrs @ 25°C (MIL-HDBK-217F)
	Weight	58g
Safety	Agency Approval	EN62368, EN60335, EN61558-2-6, EN61558-2-17, TUV, CB
EMC	EMI	Compliance with EN55032, EN55014 Class B
	EMS	Compliance with EN61000-3-2 Class A, EN61000-3-3, EN61000-4-2,3,4,5,6,11

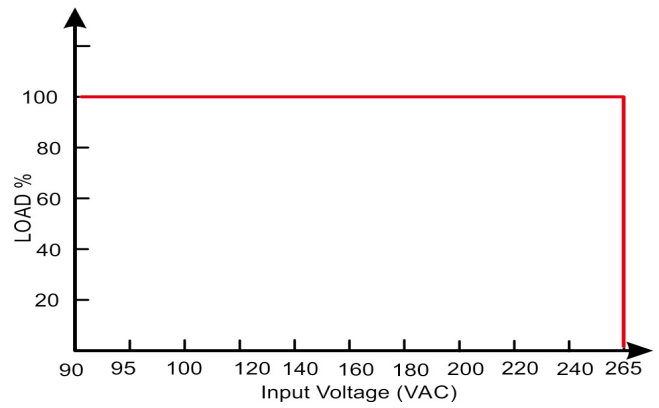
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Derating Graphs

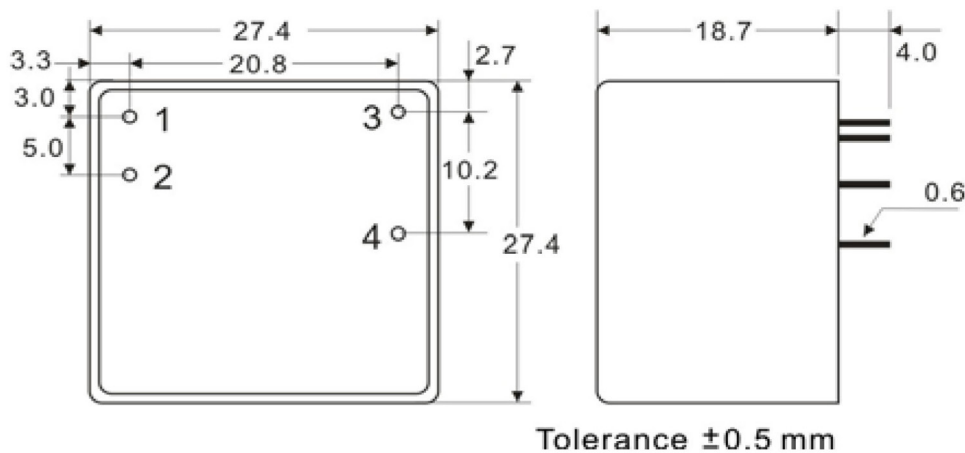
Temperature Derating Graph



Input Voltage Derating Graph



Dimensions



Recommended PCB
Hole size: 1.5mm Dia.

PIN Number	Function
1	AC(L)
2	AC(N)
3	+Vo
4	-Vo

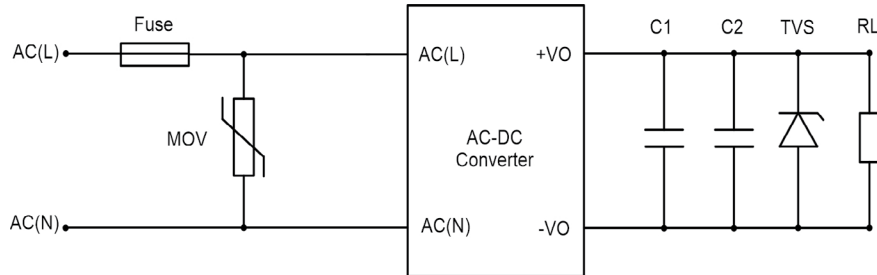
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Application Schematic for EMC

Typical Application EMC



Part Number	C1 (uF)	C2 (uF)	TVS	Fuse	MOV
VTX-214-007-1##	0.1	150	SMBJ70A	2Amp/250V Slow Blow	14D 561K

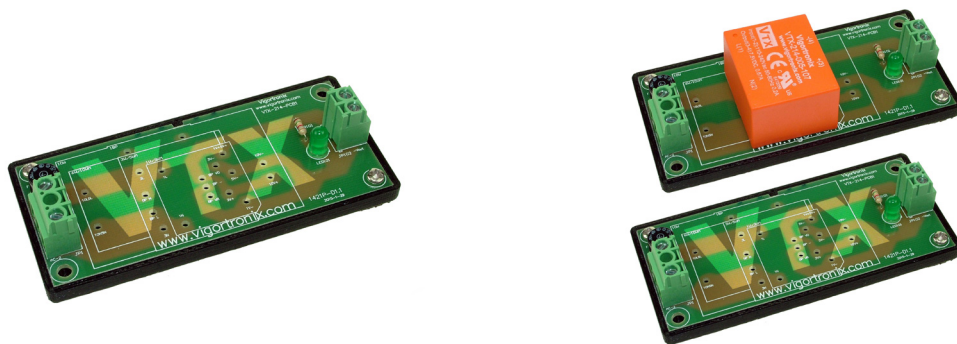
Note: For additional filtering requirements, contact technical support

Accessories

Optional Universal PCB mounting kit.

Part Number:

VTX-214-PCB1



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