



### Features:

- 15W High Power Density 63.5 x 45.7 x 19.0mm
- Wide AC & DC Input 85V to 264VAC
- Temperature Range -25°C to +70°C
- EMC Compliant without external components
- Over-voltage Category OVC III
- Output Range: 3.3V - 24VDC
- Low Standby Power <0.5W
- Fully Isolated Pri - Sec >3000Vrms
- Insulation: Class II
- Materials: UL94-V0
- IEC/EN/UL62368
- 2 Year Warranty



### Description

VTX-210-015-0## is a compact Open style AC-DC power converter. It features universal AC input and at the same time accepts DC input voltage, low power consumption, high efficiency, high reliability, reinforced isolation. It offers good EMC performance compliant to IEC/EN61000-4 and CISPR32/EN55032 and meets UL/EN/IEC62368, EN/UL60335 standards. The converters are widely used in industrial, office and civil applications. Please 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-210-015-003	9	3.3	3000	50°C (70°C @ 40%)	>72%	85 - 263VAC (100 - 370VDC)
VTX-210-015-005	14	5	2800			
VTX-210-015-009	15	9	1600			
VTX-210-015-012	15	12	1250			
VTX-210-015-015	15	15	1000			
VTX-210-015-024	15	24	625			
<b>Note: Other output voltages are available upon request.</b>						

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.

Input Specification					
Item	Conditions	Min	Typical	Max	Unit
<b>Input Voltage</b>	AC Input	85	-	264	VAC
	DC Input	100	-	370	VDC
<b>Input Frequency</b>		47	-	60	Hz
<b>Input Current</b>	115VAC	-	-	0.37	A
	230VAC	-	-	0.22	
<b>Inrush Current</b>	115VAC	-	20	-	
	230VAC	-	30	-	
<b>Leakage Current</b>	264VAC / 50Hz	0.25mA RMS Max			

Output Specification					
Item	Conditions	Min	Typical	Max	Unit
<b>Output Voltage</b>	Output 3.3V	-	+/-3	-	%
	5V/9V/12V/15V/24V	-	+/-2	-	
<b>Line Regulation</b>	Full Load 3.3V	-	+/-0.5	-	
	5V/9V/12V/15V/24V	-	+/-0.5	-	
<b>Load Regulation</b>	0% - 100% Load 3.3V	-	+/-1	-	
	5V/9V/12V/15V/24V	-	+/-1	-	
<b>Ripple / Noise</b>	20MHz Bandwidth (Peak to Peak Value)	-	50	100	mV
<b>Stand by Power</b>	230VAC	-	0.2	0.5	W
<b>Temp. Coefficient</b>		-	+/-0.02	-	%/°C
<b>Short Circuit Protection</b>		Hiccup, Continuous, Self-recovery			
<b>Over Current Protection</b>		>130% Load, Self-recovery			
<b>Over Voltage Protection</b>		Hiccup, Continuous, Self-recovery			
<b>Minimum Load</b>		0	-	-	%
<b>Hold-up Time</b>	115VAC Input	-	10	-	mS
	230VAC Input	-	60	-	

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.

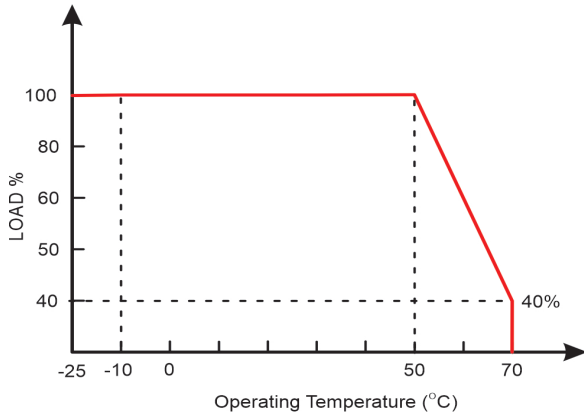
General Specification					
Item	Conditions	Min	Typical	Max	Unit
<b>Dielectric Strength</b>	Input to Output (1Min, 10mA)	3000	-	-	VAC
<b>Insulation Resistance</b>	Input to Output (500VDC)	100			M.Ohm
<b>Operating Temperature</b>		-25	-	+70	°C
<b>Storage Temperature</b>		-25	-	+85	
<b>Operating Humidity</b>		20	-	90	%RH
<b>Storage Humidity</b>		-	-	95	
<b>Switching Frequency</b>		-	65	-	KHz
<b>Altitude</b>		-	-	2000	m
<b>Safety Class</b>		CLASS II			
<b>MTBF</b>		>300KHrs @ 25°C (MIL-HDBK-217F)			
<b>Safety Approvals</b>		IEC/EN/UL62368, EN61558, EN60335			
<b>Dimensions</b>		63.5 x 45.7 x 19.0mm			
<b>Cooling Method</b>		Free air convection			
<b>Weight</b>		36g			

EMC Specification		
Emissions	CE /RE	CISPR32 / EN55032 CLASS B EN55014-1
<b>Immunity</b>	ESD	IEC/EN 61000-4-2 CONTACT +/-6KV EN55014-2
	RS	IEC/EN 61000-4-3 10V/m EN55014-2
	EFT	IEC/EN 61000-4-4 +/-2KV
	SURGE	IEC/EN 61000-4-5, EN55014-2
	CS	IEC/EN 61000-4-6 10V/r.m.s. EN55014-2
	Voltage Variation	IEC/EN 61000-4-11, EN55014-2

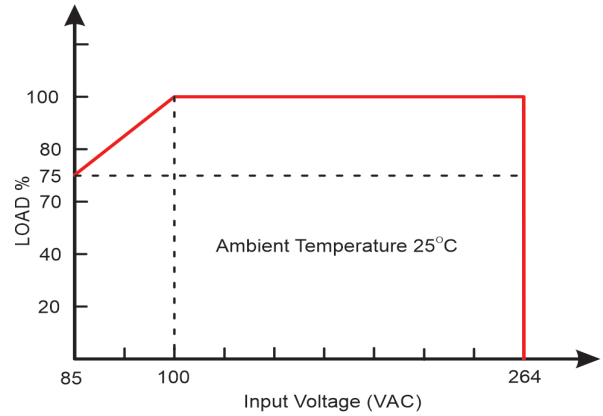
Please contact Vigortronix for any enquiries. Products can be altered to suit custom requirements.  
The information contained in this document is subject to change without notice.

## Derating Graphs

Temperature Derating Graph



Input Voltage Derating Graph

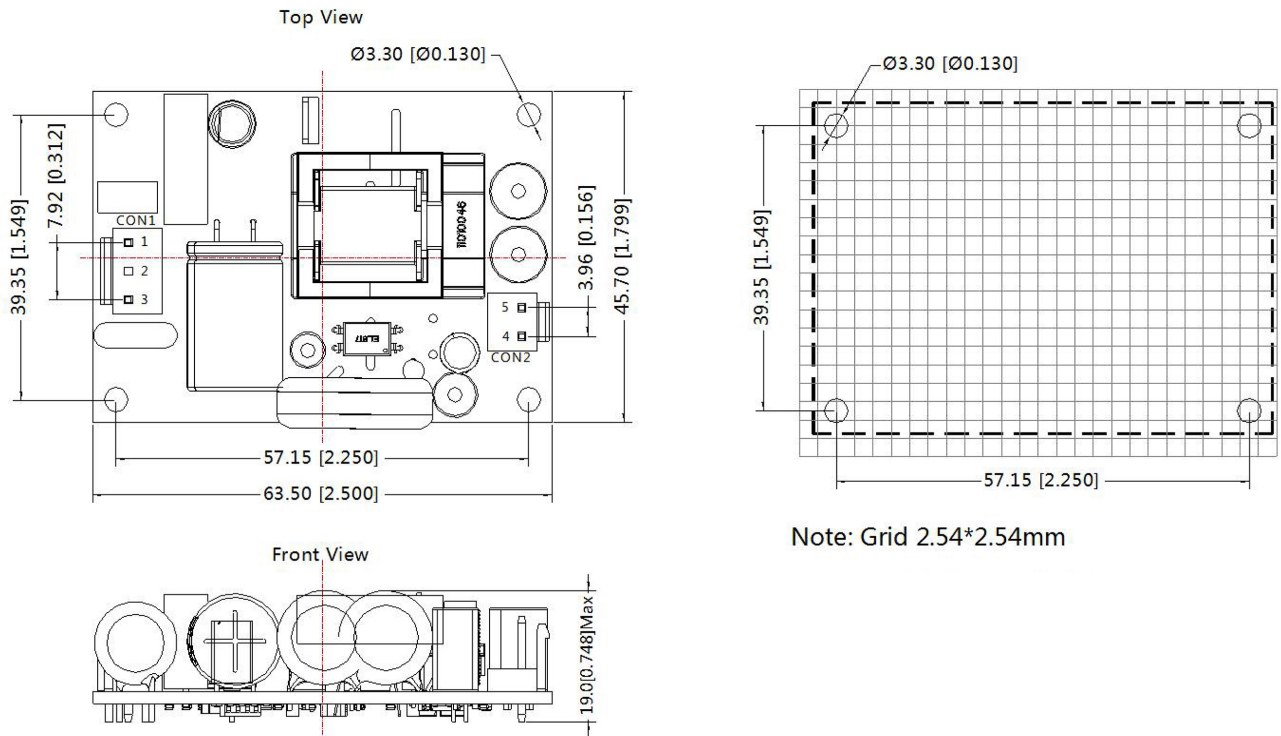


Efficiency Guide			
Part Number	Output Voltage (VDC)	Efficiency Typical (%)	Capacitance Load Max
VTX-210-015-003	3.3	73	20000 uF
VTX-210-015-005	5	76	10000 uF
VTX-210-015-009	9	78	5800 uF
VTX-210-015-012	12	81	5200 uF
VTX-210-015-015	15	81	4500 uF
VTX-210-015-024	24	82	1000 uF

**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.

## Dimensions



PIN Number	Function	Connector	Terminal
1	AC(L)	VH-3A or B2P3-VH or Equivalent	VH-3Y or VHR-3N or Equivalent
2	No Pin		
3	AC(N)		
4	-Vo	VH-2A or B2P-VH or Equivalent	VH-2Y or VHR-2N or Equivalent
5	+Vo		

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.