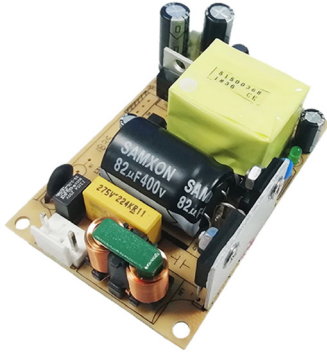




Features:

- 65W High Power Density 76.2 x 50.8 x 30.0mm
- Wide AC & DC Input 85V to 264VAC
- Temperature Range -25°C to +70°C
- Protection: OVP, OCP and Output Short Circuit
- Output Range: 5V - 48VDC
- Low Standby Power <0.5W
- Fully Isolated Pri - Sec >3000Vrms
- Insulation: Class II
- Materials: UL94-V0
- IEC/EN/UL62368
- 2 Year Warranty



Description

VTX-212-065-0## 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 Cur- rent (mA)	Ambient Temp. (°C)	Efficiency Typical	Input Range
VTX-210-065-005	50	5	10000	50°C (70°C @ 50%)	>80%	85 - 264VAC (100 - 370VDC)
VTX-210-065-009	60	9	6600			
VTX-210-065-012	65	12	5420			
VTX-210-065-015	65	15	4340			
VTX-210-065-024	65	24	2710			
VTX-210-065-048	65	48	1360			
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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Input Specification					
Item	Conditions	Min	Typical	Max	Unit
Input Voltage	AC Input	85	-	264	VAC
	DC Input	100	-	370	VDC
Input Frequency		47	-	63	Hz
Input Current	115VAC	-	-	1.6	A
	230VAC	-	-	0.90	
Inrush Curent	115VAC	-	35	-	
	230VAC	-	50	-	
Leakage Current	264VAC / 50Hz	0.25mA RMS Max			

Output Specification					
Item	Conditions	Min	Typical	Max	Unit
Output Voltage	Output	-	+/-2	-	%
Line Regulation	Full Load	-	+/-0.5	-	
Load Regulation	0% - 100% Load	-	+/-1	-	
Ripple / Noise	20MHz Bandwidth (Peak to Peak Value)	-	-	150	mV
Stand by Power	230VAC	-	-	0.5	W
Temp. Coefficient		-	+/-0.02	-	%/°C
Short Circuit Protection		Hiccup, Continuous, Self-recovery			
Over Current Protection		>120% Load, Self-recovery			
Over Voltage Protection		Hiccup, Continuous, Self-recovery			
Minimum Load		0	-	-	%
Hold-up Time	115VAC Input	-	15	-	mS
	230VAC Input	-	35	-	

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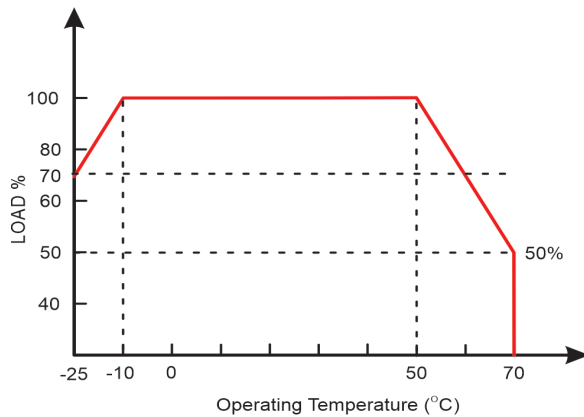
General Specification					
Item	Conditions	Min	Typical	Max	Unit
Dielectric Strength	Input to Output (1Min, 10mA)	3000	-	-	VAC
Insulation Resistance	Input to Output (500VDC)	100			M.Ohm
Operating Temperture		-25	-	+70	°C
Storage Temperture		-25	-	+85	
Operating Humidity		20	-	90	%RH
Storage Humidity		-	-	95	
Soldering Temperature	Wave Soldering	260 +/-5°C 5-10s			
	Manual Soldering	360 +/-5°C 3-5s			
Switching Frequency		-	65	-	KHz
Altitude		-	-	2000	m
Safety Class		CLASS II			
MTBF		>300KHrs @ 25°C (MIL-HDBK-217F)			
Safety Approvals		IEC/EN/UL62368			
Dimensions		76.2 x 50.8 x 30.0mm (3 x 2 Inch)			
Cooling Method		Free air convection			
Weight		95g			

EMC Specification		
Emissions	CE /RE	CISPR32 / EN55032 CLASS B EN55014-1
Immunity	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

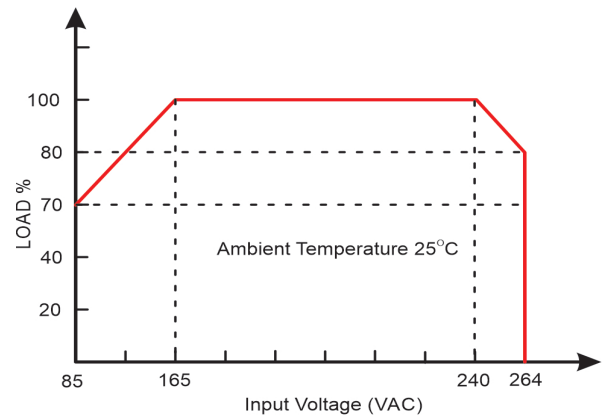
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Derating Graphs

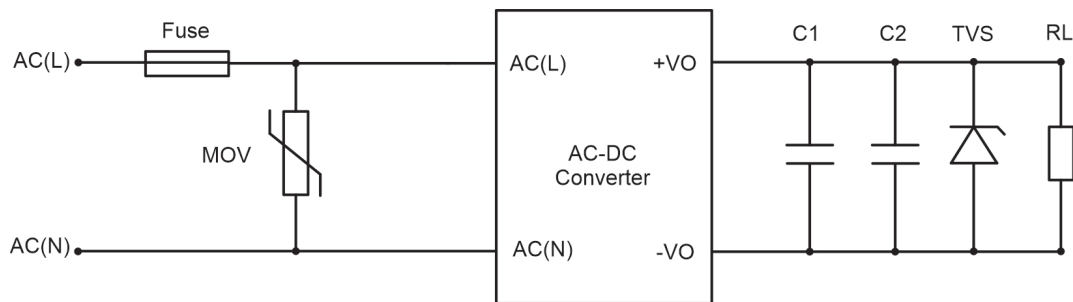
Temperature Derating Graph



Input Voltage Derating Graph



Application Circuit



C1 (uF)	C2 (uF)	TVS	Fuse	MOV
1.0	47	SMBJxxA	3.15A/300V Slow Blow	S14K350

Efficiency Guide

Part Number	Output Voltage (VDC)	Efficiency Typical (%)	Capacitance Load Max
VTX-210-065-005	5	80	40000 uF
VTX-210-065-009	9	83	12000 uF
VTX-210-065-012	12	85	8000 uF
VTX-210-065-015	15	85	7000 uF
VTX-210-065-024	24	87	1500 uF
VTX-210-065-048	48	87	1000 uF

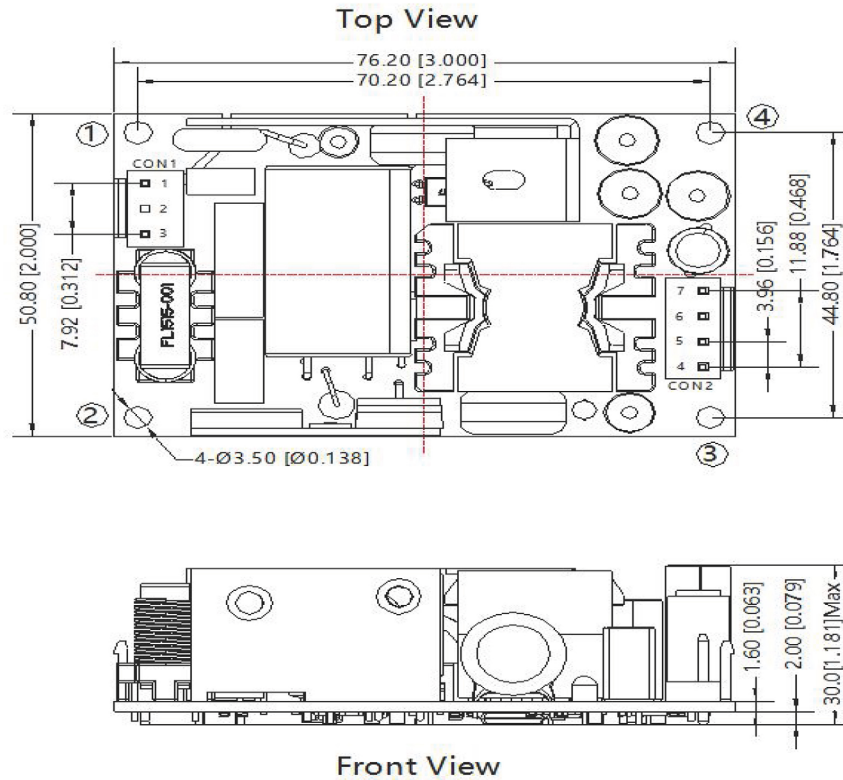
Note: Other output voltages are available upon request.

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Dimensions



PIN Number	Function	Housing	Terminal
1	AC(L)	JST VHR or Equivalent	JSTSVH-21T-P1.1 or Equivalent
2	No Pin		
3	AC(N)		
4	-Vo	JST VHR or Equivalent	JSTSVH-21T-P1.1 or Equivalent
5	-Vo		
6	+Vo		
7	+Vo		

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