



Features:

- 120W Compact Din Rail mount PSU
- Active PFC
- Wide AC & DC Input 85V to 264VAC, 120-370VDC
- Temperature range -40°C to +70°C
- Output Range: 12V - 48VDC
- Low Standby Power
- Low ripple & noise
- Fully Isolated Input - Output >4000Vrms
- Safety: Class I
- OVC II
- Materials: UL94-V0
- EN62368, EN61558
- 3 Year Warranty



Description

VTX-211-120-4## is a metal enclosed Din Rail mountable AC-DC power supply with active PFC. It features a wide input range accepting either AC or DC voltage, high efficiency, low power consumption. The products offer a high level of stability and immunity to noise, compliant with international EN62368 standards for EMC and UL61010. These light weight AC-DC converters also have an extremely compact design for space saving and are ideal for applications such as industrial control equipment machinery and all kinds of applications in a harsh environment.

Selection Guide

Part Number	Power Rating Watts	Output Voltage (VDC)	Output Current (Amp)	Output Voltage Adj. (V)	Ambient Temp. (°C)	Efficiency Typical	Capacitive Load (uF)
VTX-211-120-412	120	12	10	11.8 ~ 14	70°C	>94%	80,000
VTX-211-120-424	120	24	5	23.5 ~ 28			50,000
VTX-211-120-448	120	48	2.5	47 ~ 53			30,000

Note: Other output voltages are available upon request.

Please contact Vigortronix for any enquiries. Products can be altered to suit custom requirements.
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Input Specification					
Item	Conditions	Min	Typical	Max	Unit
Input Voltage	AC Input	85	-	264	VAC
	DC Input	120	-	370	VDC
Input Frequency		47	-	63	Hz
Input Current	115VAC	-	-	1.5	A
	230VAC	-	-	1.6	
Inrush Current	115VAC	-	15	-	
	230VAC	-	30	-	
Leakage Current		<1.0mA RMS Max			

Output Specification					
Item	Conditions	Min	Typical	Max	Unit
Output Voltage	10% - 100% Load	-	+/-1	-	%
Line Regulation	Full Load	-	+/-0.5	-	
Load Regulation	10% - 100% Load	-	+/-1.0	-	
Ripple / Noise 20MHz Bandwidth (Peak to Peak Value)	12V	-	-	100	mV
	24V	-	-	100	
	48V	-	-	200	
Stand by Power	230VAC	-	-	2	W
Temp. Coefficient		-	+/-0.03	-	%/°C
DC OK Signal	Resistive Load	30VDC/1A Max			
Short Circuit Protection		Hiccup, Continuous, Self-recovery			
Over Current Protection		>105% Load, Self-recovery			
Over Temperature Protection	OTP Start	-	90	-	°C
	OTP Release	60	-	-	
Minimum Load		0	-	-	%
Hold-up Time	230VAC Input	-	60	-	mS

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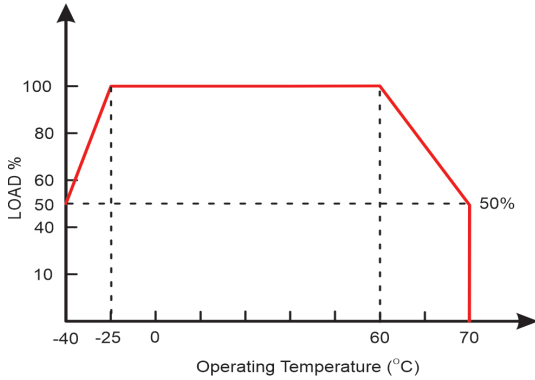
General Specification					
Item	Conditions	Min	Typical	Max	Unit
Dielectric Strength	Input to Output (1Min, <10mA)	3000	-	-	VAC
	Input to Earth	1500	-	-	
Insulation Resistance	Input to Output (500VDC)	50			M.Ohm
Operating Temperature		-40	-	+70	°C
Storage Temperature		-40	-	+85	
Storage Humidity		-	-	+95	%RH
Switching Frequency		-	100	-	KHz
Operating Altitude		2000			m
Safety Class		CLASS I			
MTBF		>300KHrs @ 25°C (MIL-HDBK-217F)			
Safety Approvals		UL61010, EN61558, EN62368-1			
Cooling Method		Free air convection			
Dimensions		110.00 x 32.00 x 124.00mm			
Weight		490g			

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
	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

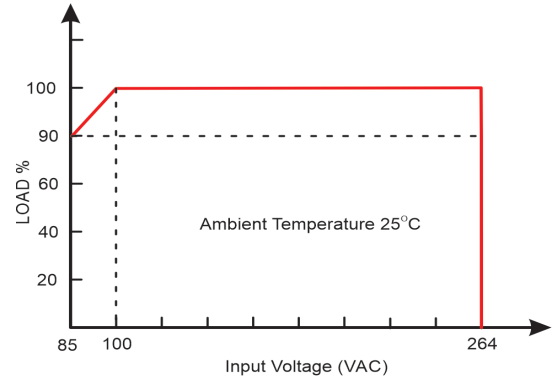
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Derating Graphs

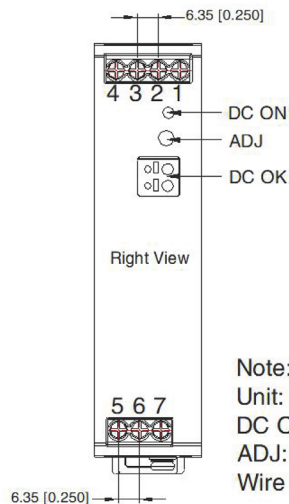
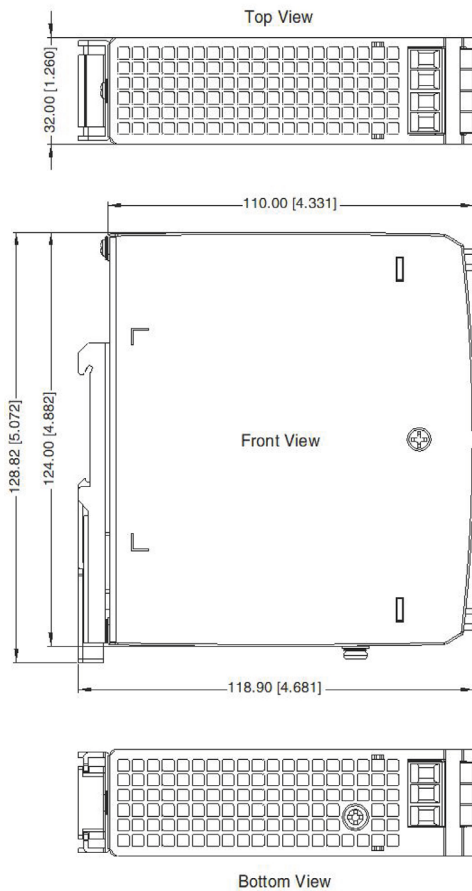
Temperature Derating Graph



Input Voltage Derating Graph



Dimensions



Pin-Out	
Pin	
1	-Vo
2	-Vo
3	+Vo
4	+Vo
5	AC(N)
6	AC(L)
7	⊕

Note:

Unit: mm[inch]

DC ON: Output status indicator LED

ADJ: Output adjustable resistor

Wire range: Input: 26-10AWG(12-10AWG for Pin7)

Output: 12V: 16-10AWG

24V: 20-10AWG

48V: 22-10AWG

DC OK: 24-16AWG

Tightening torque: 0.79 ± 0.079 N·m

Mounting rail: TS35, rail needs to connect safety ground

General tolerances: ± 1.00[± 0.039]

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