



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.
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	120	-	370	VDC
Input Frequency		47	-	63	Hz
Input Current	115VAC	-	-	1.5	A
	230VAC	-	-	1.6	
Inrush Curent	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 Temperture		-40	-	+70	°C
Storage Temperture		-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

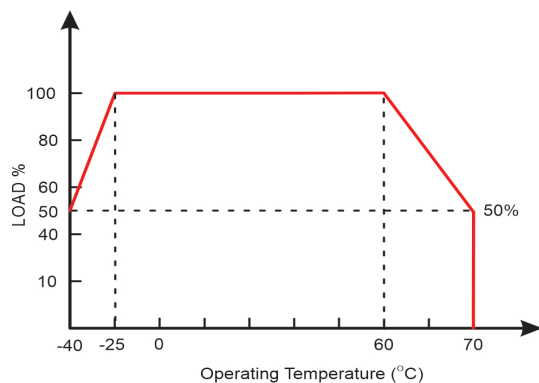
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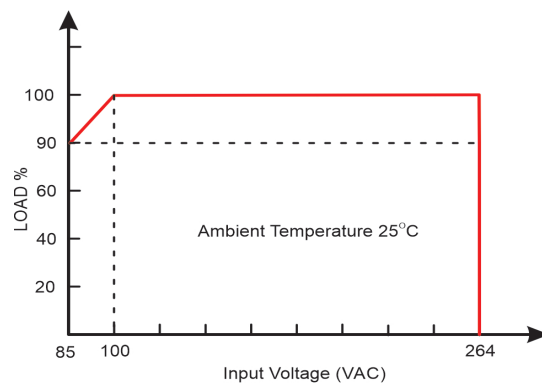
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Derating Graphs

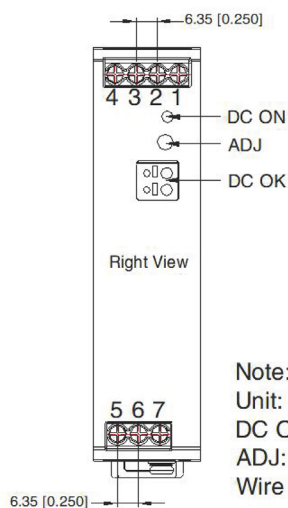
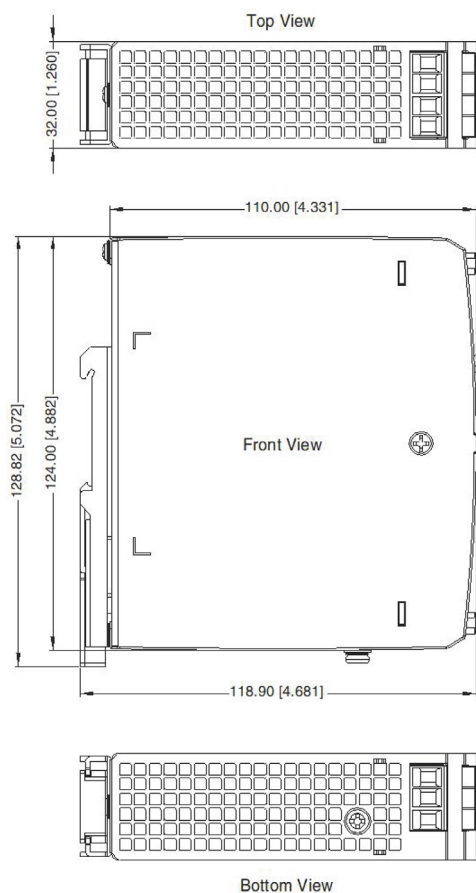
Temperature Derating Graph



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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