



Features:

- 120W Compact Din Rail mount PSU
- Wide AC & DC Input 90V to 264VAC, 120-370VDC
- Temperature range -30°C to +70°C
- Output Range: 12V - 48VDC
- Low Standby Power
- Low ripple & noise
- Fully Isolated Input - Output >4000Vrms
- Safety: Class I
- Materials: UL94-V0
- EN62368, EN61558
- 3 Year Warranty



Description

VTX-211-120-3## is a metal enclosed Din Rail mountable AC-DC power supply . 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-211-120-312	120	12	10	12 ~ 14	70°C	>85%	3000
VTX-211-120-324	120	24	5	24 ~ 28			1200
VTX-211-120-348	120	48	2.5	48 ~ 53			800

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.

Input Specification					
Item	Conditions	Min	Typical	Max	Unit
Input Voltage	AC Input	90	-	264	VAC
	DC Input	120	-	370	VDC
Input Frequency		47	-	63	Hz
Input Current	115VAC	-	-	2.7	A
	230VAC	-	-	1.6	
Inrush Current	115VAC	-	30	-	
	230VAC	-	55	-	
Leakage Current		<1.0mA RMS Max			

Output Specification					
Item	Conditions	Min	Typical	Max	Unit
Output Voltage	10% - 100% Load	-	+/-2	-	%
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	-	-	120	
	48V	-	-	150	
Stand by Power	230VAC	-	-	0.4	W
Temp. Coefficient		-	+/-0.03	-	%/°C
Short Circuit Protection		Hiccup, Continuous, Self-recovery			
Over Current Protection		>105% Load, Self-recovery			
Minimum Load		0	-	-	%
Hold-up Time	230VAC Input	-	60	-	mS

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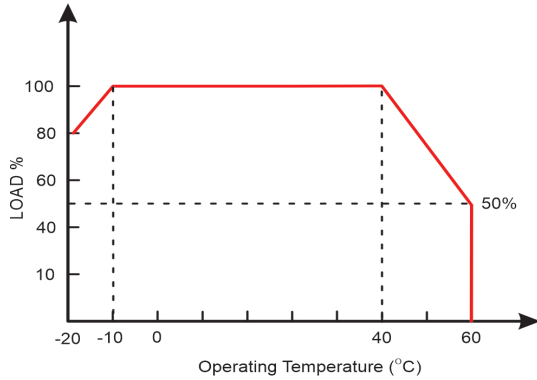
General Specification					
Item	Conditions	Min	Typical	Max	Unit
Dielectric Strength	Input to Output (1Min, <10mA)	4000	-	-	VAC
	Input to Earth	2000	-	-	
Insulation Resistance	Input to Output (500VDC)	100			M.Ohm
Operating Temperature		-20	-	+60	°C
Storage Temperature		-40	-	+85	
Storage Humidity		-	-	+95	%RH
Switching Frequency		-	65	-	KHz
Operating Altitude		2000			m
Safety Class		CLASS I			
MTBF		>300KHrs @ 25°C (MIL-HDBK-217F)			
Safety Approvals		Meets: UL61010, EN61558, EN62368			
Cooling Method		Free air convection			
Dimensions		36.00 x 125.00 x 100.00mm			
Weight		410g			

EMC Specification		
Emissions	CE /RE	CISPR32 / EN55032 CLASS A 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

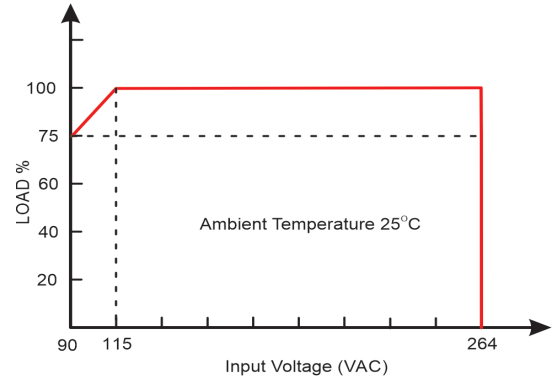
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Derating Graphs

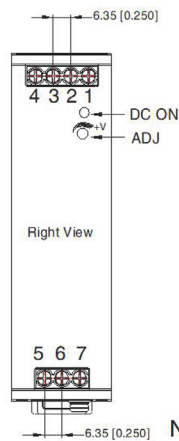
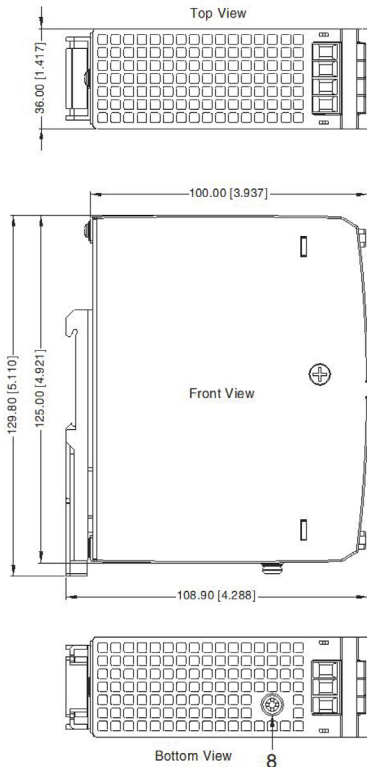
Temperature Derating Graph





Input Voltage Derating Graph



Dimensions



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

7, 8 any position must be connected to the earth ()

Note:

Unit: mm[inch]

ADJ: Output adjustable resistor

Wire range: 26-10 AWG

Tightening torque: Max 0.4 N·m

Mounting rail: TS35, rail needs to connect safety ground

General tolerances: $\pm 1.00[\pm 0.039]$

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