



### Features:

- 75W 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-211-075-3## 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)
<b>VTX-211-075-312</b>	75	12	6.3	12 ~ 14	70°C	>86%	6000
<b>VTX-211-075-324</b>	76	24	3.2	24 ~ 28			1500
<b>VTX-211-075-348</b>	76	48	1.6	48 ~ 53			1000

**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	A
	230VAC	-	-	1	
Inrush Current	115VAC	-	25	-	
	230VAC	-	45	-	
Leakage Current		0.5mA 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	-	-	80	mV
	24V	-	-	120	
	48V	-	-	150	
Stand by Power	230VAC	-	0.30	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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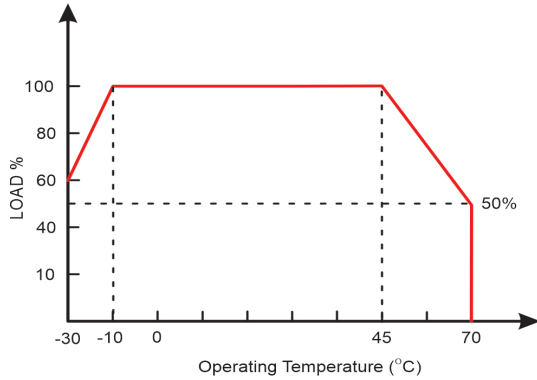
General Specification					
Item	Conditions	Min	Typical	Max	Unit
<b>Dielectric Strength</b>	Input to Output (1Min, <10mA)	4000	-	-	VAC
	Input to Earth	2000	-	-	
<b>Insulation Resistance</b>	Input to Output (500VDC)	50			M.Ohm
<b>Operating Temperature</b>		-30	-	+70	°C
<b>Storage Temperature</b>		-40	-	+85	
<b>Storage Humidity</b>		-	-	+95	%RH
<b>Switching Frequency</b>		-	65	-	KHz
<b>Operating Altitude</b>		2000			m
<b>Safety Class</b>		CLASS I			
<b>MTBF</b>		>300KHrs @ 25°C (MIL-HDBK-217F)			
<b>Safety Approvals</b>		UL61010, EN61558, EN62368			
<b>Cooling Method</b>		Free air convection			
<b>Dimensions</b>		32.00 x 125.00 x 87.50mm			
<b>Weight</b>		350g			

EMC Specification		
<b>Emissions</b>	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
	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

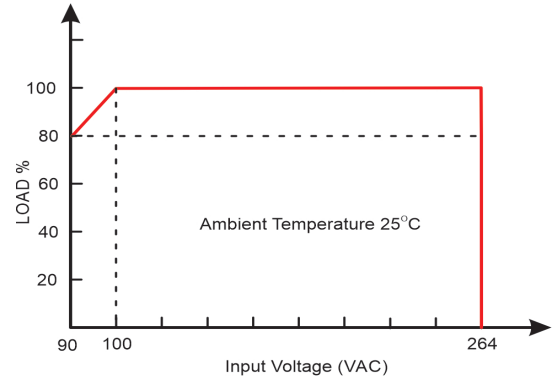
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## Derating Graphs

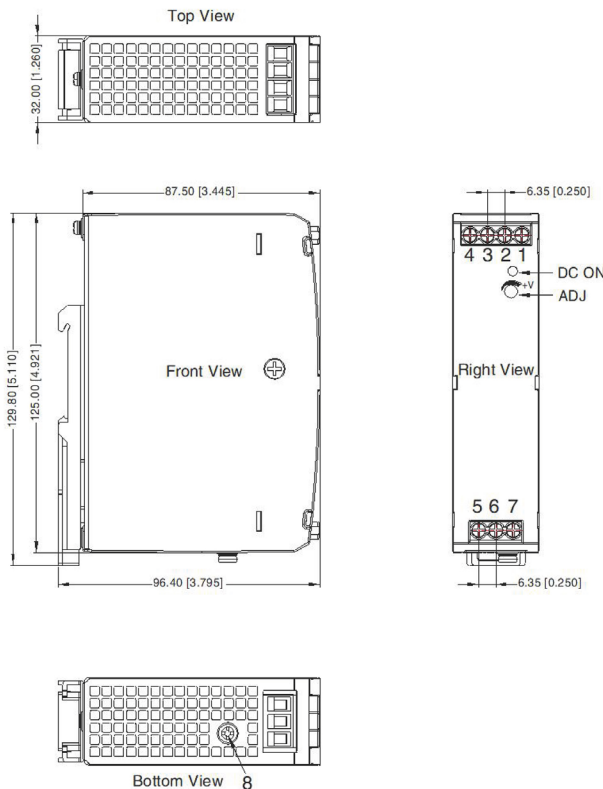
### Temperature Derating Graph



### 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: ± 1.00 [± 0.039]

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