



### Features:

- 30W Compact plastic Din Rail mount PSU
- Wide AC & DC Input 85V to 264VAC, 120-370VDC
- Temperature range -40°C to +70°C
- Output Range: 5V - 48VDC
- Low Standby Power 0.4W
- Low ripple & noise
- Fully Isolated Input - Output >4000Vrms
- Over Voltage Class III (EN61558-1)
- Safety: Class II
- Materials: UL94-V0
- IEC/EN/UL62368, EN61558
- 3 Year Warranty



### Description

VTX-211-030-2## is a plastic 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 and CLASS II reinforced insulation. The products offer a high level of stability and immunity to noise, compliant with international IEC62368 standards for EMC and safety sepecifitions meet IEC/EN61000-4, CISPR32, EN55032, UL62368, IEC62368 and EN62368. 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-211-030-205</b>	15	5	3	4.9 ~ 5.5	70°C	>82%	12000
<b>VTX-211-030-212</b>	24	12	2	10.0 ~ 13.8			6000
<b>VTX-211-030-215</b>	30	15	2	13.5 ~ 18.0			5000
<b>VTX-211-030-224</b>	36	24	1.5	21.6 ~ 29.0			1400
<b>VTX-211-030-248</b>	36	48	0.75	43.2 ~ 55.2			600

**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
<b>Input Voltage</b>	AC Input	85	-	264	VAC
	DC Input	120	-	370	VDC
<b>Input Frequency</b>		47	-	63	Hz
<b>Input Current</b>	115VAC	-	-	0.9	A
	230VAC	-	-	0.5	
<b>Inrush Current</b>	115VAC	-	25	-	
	230VAC	-	45	-	
<b>Leakage Current</b>		0.25mA RMS Max			

Output Specification					
Item	Conditions	Min	Typical	Max	Unit
<b>Output Voltage</b>	10% - 100% Load	-	+/-2	-	%
<b>Line Regulation</b>	Full Load	-	+/-0.5	-	
<b>Load Regulation</b>	10% - 100% Load	-	+/-1.5	-	
<b>Ripple / Noise</b> 20MHz Bandwidth (Peak to Peak Value)	5V	-	-	80	mV
	12V	-	-	120	
	15V	-	-	120	
	24V/48V	-	-	150	
<b>Stand by Power</b>	230VAC	-	0.30	0.4	W
<b>Temp. Coefficient</b>		-	+/-0.02	-	%/°C
<b>Short Circuit Protection</b>		Hiccup, Continuous, Self-recovery			
<b>Over Current Protection</b>		>120% Load, Self-recovery			
<b>Minimum Load</b>		0	-	-	%
<b>Hold-up Time</b>	230VAC Input	-	60	-	mS

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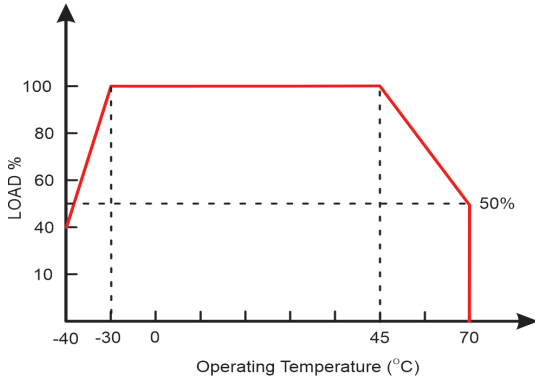
General Specification					
Item	Conditions	Min	Typical	Max	Unit
<b>Dielectric Strength</b>	Input to Output (1Min, 5mA)	4000	-	-	VAC
<b>Insulation Resistance</b>	Input to Output (500VDC)	100			M.Ohm
<b>Operating Temperature</b>		-40	-	+70	°C
<b>Storage Temperature</b>		-40	-	+85	
<b>Storage Humidity</b>		-	-	+95	%RH
<b>Switching Frequency</b>		-	65	-	KHz
<b>Operating Altitude</b>		2000			m
<b>Safety Class</b>		CLASS II			
<b>MTBF</b>		>300KHrs @ 25°C (MIL-HDBK-217F)			
<b>Safety Approvals</b>		UL62368, IEC62368-1 EN61558, EN62368			
<b>Cooling Method</b>		Free air convection			
<b>Dimensions</b>		92.66 x 35.00 x 58.00mm			
<b>Weight</b>		115g			

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

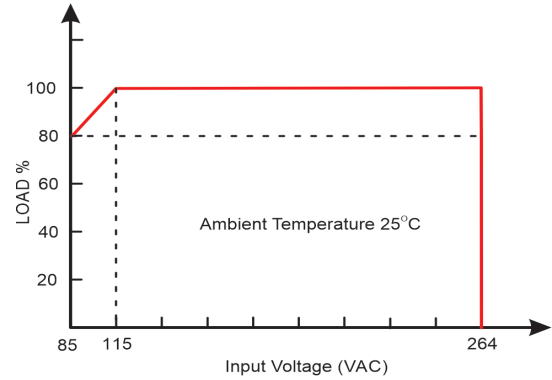
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## Derating Graphs

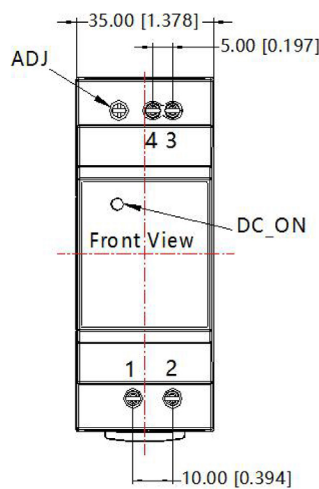
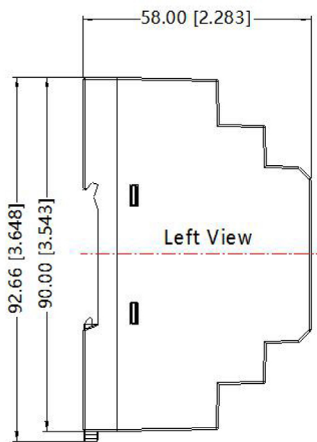
### Temperature Derating Graph



### Input Voltage Derating Graph



## Dimensions



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

Note:  
 Unit: mm[inch]  
 ADJ: adjustable resistance to change output voltage  
 Wire range: 24-12 AWG  
 Tightening torque: Max 0.4 N·m  
 Mounting rail: TS35  
 General tolerances:  $\pm 1.00[\pm 0.039]$

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