



Features:

- 75W Compact Size 99.0 x 97.0 x 30.0mm
- Wide AC & DC Input 85V to 305VAC
- Temperature Range -30°C to +70°C
- Over-voltage Category OVC III
- Output Range: 3.3V - 48VDC
- Low Standby Power <0.5W
- Fully Isolated Pri - Sec >4000Vrms
- Insulation: Class II
- Materials: UL94-V0
- UL/EN62368-1, EN61558, EN60335
- 3 Year Warranty



Description

VTX-212-075-0### AC-DC enclosed caged PSU. It features a wide AC input 85V to 305VAC and a DC input voltage 100 to 430VDC. The converters have been designed with low power consumption, high efficiency, high reliability, reinforced isolation. It offers good EMC performance compliant to IEC/EN61000-4 and CISPR32/EN55032 and meets IEC/EN/UL62368/EN60335/EN61558 standards. The converters are widely used in industrial, power, home appliances, instrumentation, communication, LED lighting and civil applications. For extremely harsh EMC environment, we recommend using the application circuit show in this Datasheet or contact our Technical team for further support.

Selection Guide

Part Number	Power Rating Watts	Output Voltage (VDC)	Output Voltage Adj. Range	Output Current (mA)	Ambient Temp. (°C)	Efficiency Typical	Input Range
VTX-212-075-005	70	5	2.8~3.6	14000	50°C (70°C @ 60%)	>85%	85 - 305VAC (100 - 430VDC)
VTX-212-075-012	72	12	10.2~13.8	6000			
VTX-212-075-015	75	15	13.5~18	5000			
VTX-212-075-024	75	24	21.6~28.8	3200			
VTX-212-075-036	75	36	32.4~39.6	2100			
VTX-212-075-048	75	48	43.2~52.8	1600			
VTX-212-075-055	75	55	52~56	1360			

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	-	305	VAC
	DC Input	100	-	430	VDC
Input Frequency		47	-	63	Hz
Input Current	115VAC	-	-	2	A
	230VAC	-	-	1	
Inrush Current	115VAC	-	40	-	
	230VAC	-	75	-	
Leakage Current	277VAC / 50Hz	0.75mA RMS Max			

Output Specification					
Item	Conditions	Min	Typical	Max	Unit
Output Voltage	Output 5V	-	+/-2	-	%
	12V/15/24/48V/55V	-	+/-1	-	
Line Regulation	Full Load 5V	-	+/-0.5	-	
	12V/15/24/48V/55V	-	+/-0.5	-	
Load Regulation	0% - 100% Load 5V	-	+/-1	-	
	12V/15/24/48V/55V	-	+/-0.5	-	
Ripple / Noise	20MHz Bandwidth (Peak to Peak Value)	-	120	220	mV
Stand by Power	230VAC	-	0.2	0.5	W
Temp. Coefficient		-	+/-0.03	-	%/°C
Short Circuit Protection		Hiccup, Continuous, Self-recovery			
Over Current Protection		>110% Load, Self-recovery			
Over Voltage Protection		Hiccup, Continuous, Self-recovery			
Minimum Load		0	-	-	%
Hold-up Time	115VAC Input	-	8	-	mS
	230VAC Input	-	55	-	

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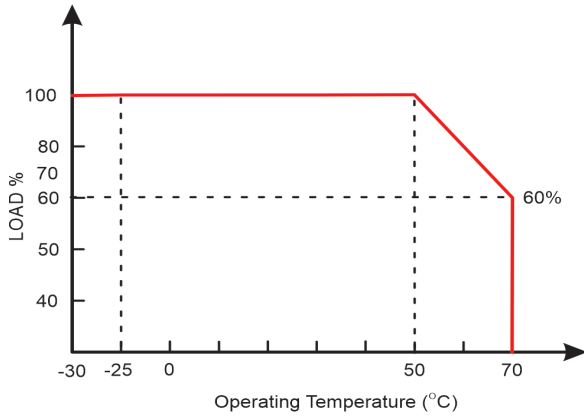
General Specification					
Item	Conditions	Min	Typical	Max	Unit
Dielectric Strength	Input to Output (1Min, 10mA)	4000	-	-	VAC
	Input to Earth (1Min, 10mA)	2000	-	-	
Insulation Resistance	Input to Output (500VDC)	100			M.Ohm
Operating Temperature		-30	-	+70	°C
Storage Temperature		-40	-	+85	
Operating Humidity		20	-	90	%RH
Storage Humidity		-	-	95	
Switching Frequency		-	65	-	KHz
Altitude		-	-	5000	m
Safety Class		CLASS I			
MTBF		>300KHrs @ 25°C (MIL-HDBK-217F)			
Safety Approvals		IEC/UL62368-1, EN61558-1, EN60335-1			
Case Material		Metal (AL5052)			
Dimensions		99.00 x 97.00 x 30.00mm			
Cooling Method		Free air convection			
Weight		220g			

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 +/-2.2KV
	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

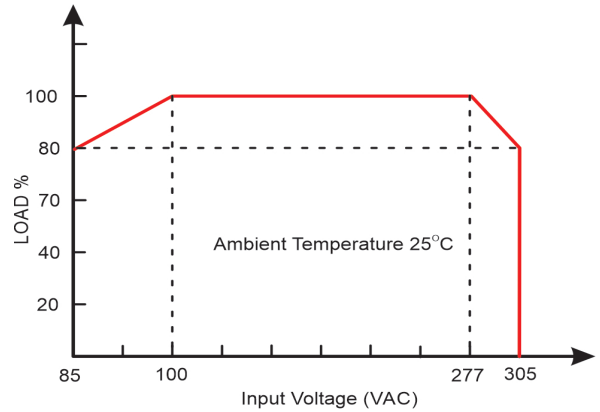
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Derating Graphs

Temperature Derating Graph



Input Voltage Derating Graph



Efficiency Guide			
Part Number	Output Voltage (VDC)	Efficiency Typical (%)	Capacitance Load Max
VTX-212-075-005	5	85	10000 uF
VTX-212-075-012	12	87	6000 uF
VTX-212-075-015	15	87	5000 uF
VTX-212-075-024	24	89	1500 uF
VTX-212-075-036	36	89	1000 uF
VTX-212-075-048	48	90	680 uF
VTX-212-075-055	55	90	680 uF

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