



Features:

- 150W Compact Size 159.0 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: 12V - 55VDC
- 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-212-150-0### 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-212-150-012	150	12	10.2~13.8	12500	50°C (70°C @ 50%)	>86%	85 - 305VAC (120 - 430VDC)
VTX-212-150-015	150	15	13.5~18	10000			
VTX-212-150-024	150	24	21.6~28.8	6500			
VTX-212-150-036	150	36	32.4~39.6	4300			
VTX-212-150-048	150	48	43.2~52.8	3300			
VTX-212-150-055	150	55	49.5~60.5	2730			

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	120	-	430	VDC
Input Frequency		47	-	63	Hz
Input Current	115VAC	-	-	4	A
	230VAC	-	-	2	
Inrush Current	115VAC	-	30	-	
	230VAC	-	60	-	
Leakage Current	277VAC / 50Hz	0.75mA RMS Max			

Output Specification						
Item	Conditions	Min	Typical	Max	Unit	
Output Voltage	Full Load Range	-	+/-1	-	%	
Line Regulation	Rated Load	-	+/-0.5	-		
Load Regulation	0% - 100% Load	-	+/-0.5	-		
Ripple / Noise	20MHz Bandwidth	12V/15V	-	-	150	mV
		24V/36V/48V/55V	-	-	200	
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%-150% Load, Self-recovery				
Over Voltage Protection		Hiccup, Continuous, Self-recovery				
Minimum Load		0	-	-	%	
Hold-up Time	115VAC Input	-	8	-	mS	
	230VAC Input	-	40	-		

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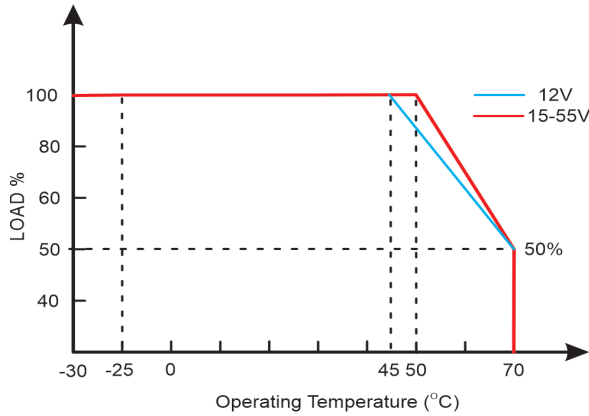
General Specification					
Item	Conditions	Min	Typical	Max	Unit
Dielectric Strength	Input to Output (1Min, 10mA)	4000	-	-	VAC
	Input to Earth (1Min, 10mA)	2000	-	-	
Insulation Resistance	Input to Output (500VDC)	50			M.Ohm
Operating Temperature		-30	-	+70	°C
Storage Temperature		-40	-	+85	
Operating Humidity		20	-	90	%RH
Storage Humidity		10	-	95	
Switching Frequency		-	65	-	KHz
Altitude		-	-	5000	m
Safety Class		CLASS I			
MTBF		>300KHrs @ 25°C (MIL-HDBK-217F)			
Safety Approvals		IEC/EN/UL62368, EN61558, EN60335			
Case Material		Metal (AL5052)			
Dimensions		159.00 x 97.00 x 30.00mm			
Cooling Method		Free air convection			
Weight		430g			

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 +/-4KV
	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

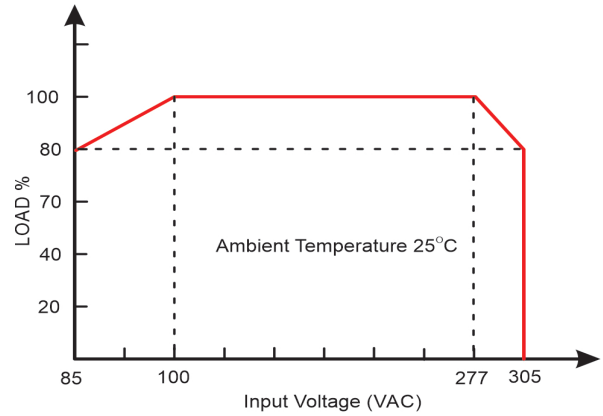
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Derating Graphs

Temperature Derating Graph



Input Voltage Derating Graph



Efficiency Guide

Part Number	Output Voltage (VDC)	Efficiency Typical (%)	Capacitance Load Max
VTX-212-150-012	12	86	10000 uF
VTX-212-150-015	15	87	6000 uF
VTX-212-150-024	24	88	2400 uF
VTX-212-150-036	36	88	1200 uF
VTX-212-150-048	48	89	600 uF
VTX-212-150-055	55	90	600 uF

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