

Features:



- 50W Single Output - Regulated
- Output Range: 12V - 24VDC
- Input: 90 - 305VAC , 47 - 440Hz
- Low Standby Power <0.1W
- Height 23.1mm
- Fully Isolated Pri - Sec 4000Vrms
- EMC Compliant without external components
- Materials: UL94-V0
- Safety: UL/IEC/EN62368-1, EN60335-1, CE



Description

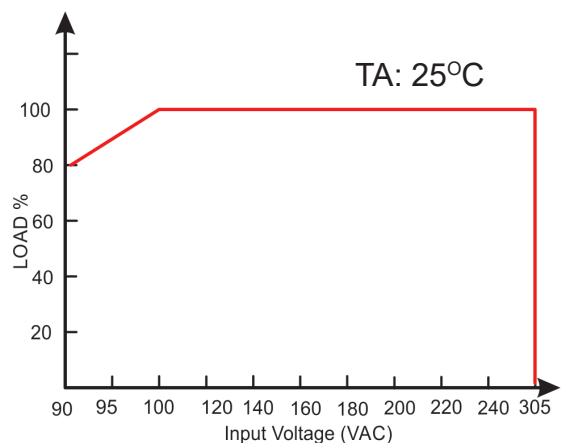
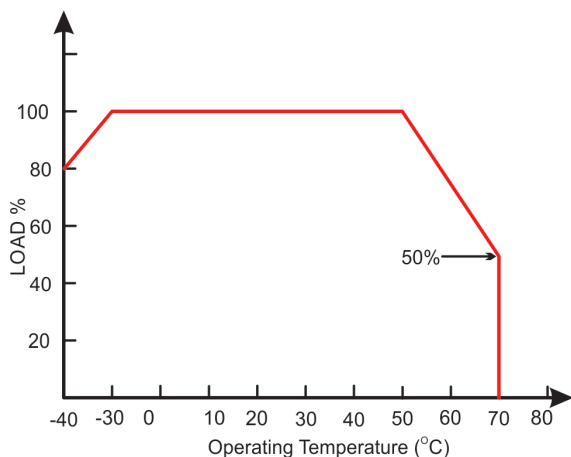
VTX-214-050-1## is a series of compact 50 watt AC-DC power converters. They feature a wide AC input 90V to 305V_a (120 - 430V_{dc}) with a low standby power usage of <0.1W. The converters are EMC compliant without any external components.

Selection Guide

Part Number	Power Rating Watts	Output Voltage (Vdc)	Output Current (mA)	Max Capacitive Load	Ambient Temp. (°C)	Efficiency Typical	Input Range
VTX-214-050-112	50	12	4167	3500uF	70	>88%	90 - 305VAC (120-430VDC)
VTX-214-050-115	50	15	3333	3000uF			
VTX-214-050-124	50	24	2083	2200uF			

Note: Other output voltages are available upon request.

Derating Graphs



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.

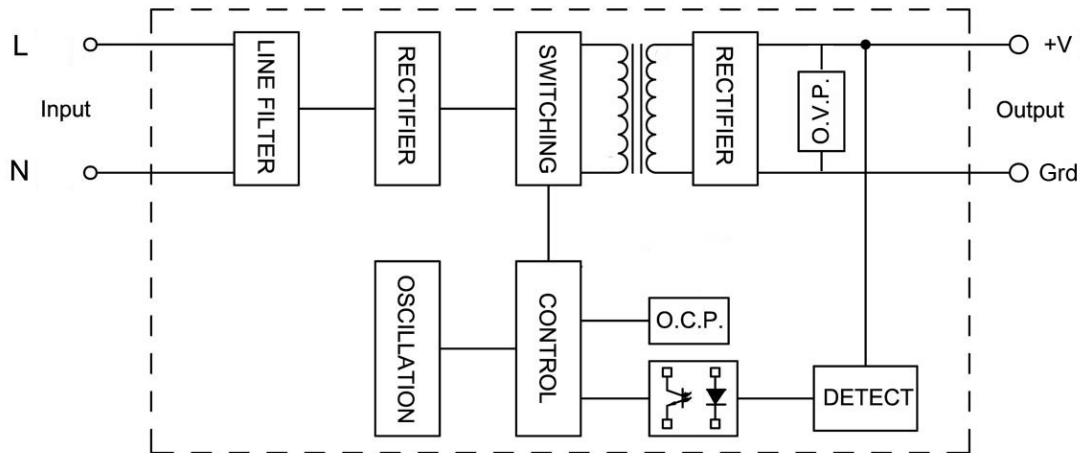
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Vigortronix is a trading name of Vigortronix Limited

Vigortronix.com

Model: 50 Watt		Specification
INPUT Pin 1: L Pin 2: N	Voltage Range	90 - 305VAC / 47 - 440Hz (120 ~ 430VDC)
	Current	1000mA Max (115VAC) / 600mA Max (230VAC)
	Inrush Current	45A Max (115VAC) / 90A Max (230VAC)
	No Load power	0.15W
	Leakage Current	0.25 mA Max (230VAC)
OUTPUT Pin 3: VDC+ Pin 5: VDC- Pin 4: No Pin	Voltage Accuracy	+/- 2%
	Ripple	<240mV Max (Vp-p)
	Noise	<240mV Max (Vp-p)
	Efficiency	>88%
	Load Regulation	+/-2.5%
	Hold Up Time	10mSec Min.
	Minimum Load	0
Protection	Over Power	Hiccup mode
	Over Voltage	Zener Diode clamp
	Short Circuit Protection	Hiccup mode
Dielectric Isolation	Input to Output	4000Vrms, 2Sec Min.
Enviroment	Operating Temperature	-40°C - +70°C (With Derating)
	Storage Temperature	-40°C - +85°C
	MTBF	>300,000Hrs @ 25°C (MIL-HDBK-217F)
	Weight	150g
	Cooling Method	Free Air convection
Safety	Compliant Standards	UL/IEC/EN62368-1, IEC/EN60335-1, IEC/EN61558-2-16
EMC	EMI	Compliance with EN55032 Class B
	EMS	Compliance with EN55035

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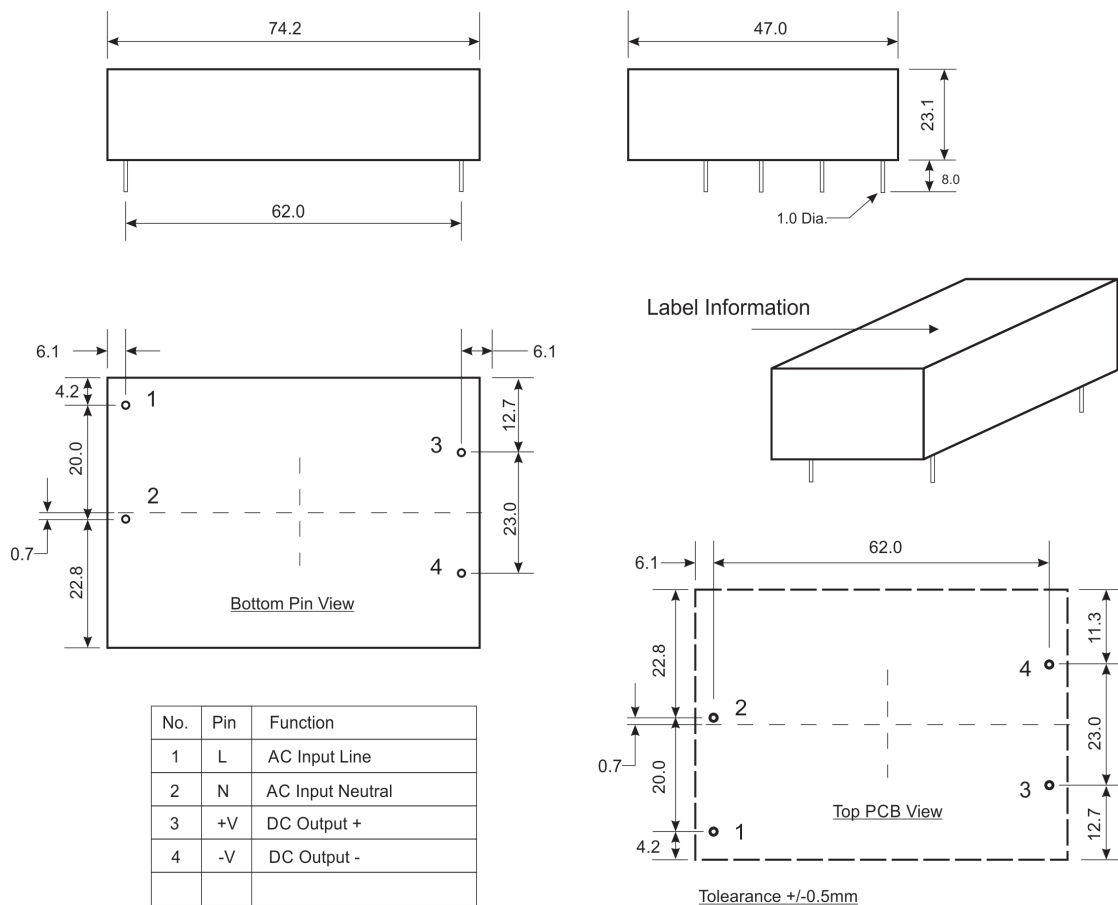
Schematic Diagram



Notes:

It is recommended to improve Surge Protection adding across the Input a MOV, 14D561K

Mechanical Layout



Recommended PCB
Hole size: 1.5mm Dia.

Unit weight: 150g

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