



### Features:

- Zero Crossing Feature - NEW
- 2W Low Profile <15.5mm Height
- MTBF: 1,000,000 Hours
- Wide Input Range: 90 - 305VAC
- Low Standby Power <0.15W
- High Temperature 85°C Full Load
- EMC Compliant - No External Components
- TUV, UL Approved

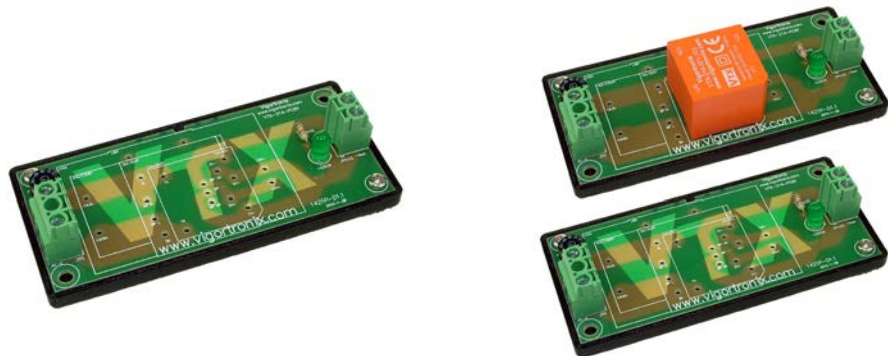
Part Number	Power Rating Watts	Output Voltage (VDC)	Output Current (mA)	Ambient Temp. (°C)	Efficiency Typical	Voltage Range
VTX-214-002-303X	2	3.3	600	85	>72%	90 - 305VAC
VTX-214-002-305X	2	5	400			
VTX-214-002-306X	2	6	333			
VTX-214-002-307X	2	7.5	266			
VTX-214-002-308X	2	8	250			
VTX-214-002-309X	2	9	222			
VTX-214-002-310X	2	10	200			
VTX-214-002-312X	2	12	166			
VTX-214-002-315X	2	15	133			
VTX-214-002-318X	2	18	111			
VTX-214-002-324X	2	24	83			
VTX-214-002-348X	2	48	42			

**Note: Other output voltages are available upon request.**

Optional Universal PCB mounting kit.

Part Number:  
VTX-214-PCB2

Farnell Part:  
Rapid Electronics Part:  
Maplin Part:

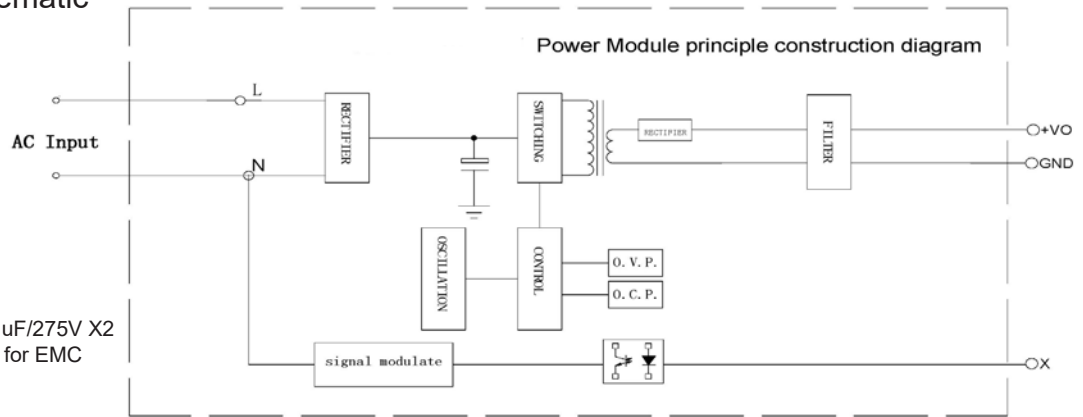


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The information contained in this document is subject to change without notice.

Model: 2 Watt		Specification
<b>INPUT</b>  <b>Pin 1: L</b> <b>Pin 2: N</b>	Voltage Range	90 ~ 305VAC / 47 ~ 63Hz
	Current	200mA Max (100VAC) / 100mA Max (240VAC)
	Inrush Current	5A Max (100VAC) / 10A Max (240VAC)
	No Load power	0.15W Max
	Leakage Current	0.2 mA Max
<b>OUTPUT</b>  <b>Pin 5: DC+</b> <b>Pin 4: 0V</b> <b>Pin 3: Zero Crossing</b>	Voltage Accuracy	3% (3.3VDC 5%)
	Ripple	3% Vout (Vp~p) (3.3VDC 5%)
	Noise	3% Vout (Vp~p) (3.3VDC 5%)
	Efficiency @ 230VAC	>72%
	Minimum Load	0
<b>Protection</b>	Over Power	Hiccup mode
	Over Voltage	Hiccup mode
	Short Circuit Protection	Hiccup mode
<b>Dielectric Isolation</b>	Input to Output	3600Vrms
<b>Environment</b>	Operating Temperature	-25°C ~ +85°C (See Derating Curve)
	Storage Temperature	-40°C ~ +105°C
	<b>MTBF</b>	>1,000,000Hrs @ 25°C (MIL-HDBK-217F)
	Weight	29g
<b>Safety</b>	Agency Standards	Compliance with IEC60950-1, EN60950-1, IEC61558-1, EN61558-1, EN61558-2-6, EN61558-2-17
<b>EMC</b>	EMI	Compliance with EN55022 Class B, EN61000-3-2, 3
	EMS	Compliance with EN55024, EN55014-1, EN55014-2, EN61000-4-2,3,4,5,6,8,11 Class A, (Surge L-N: 1KV),

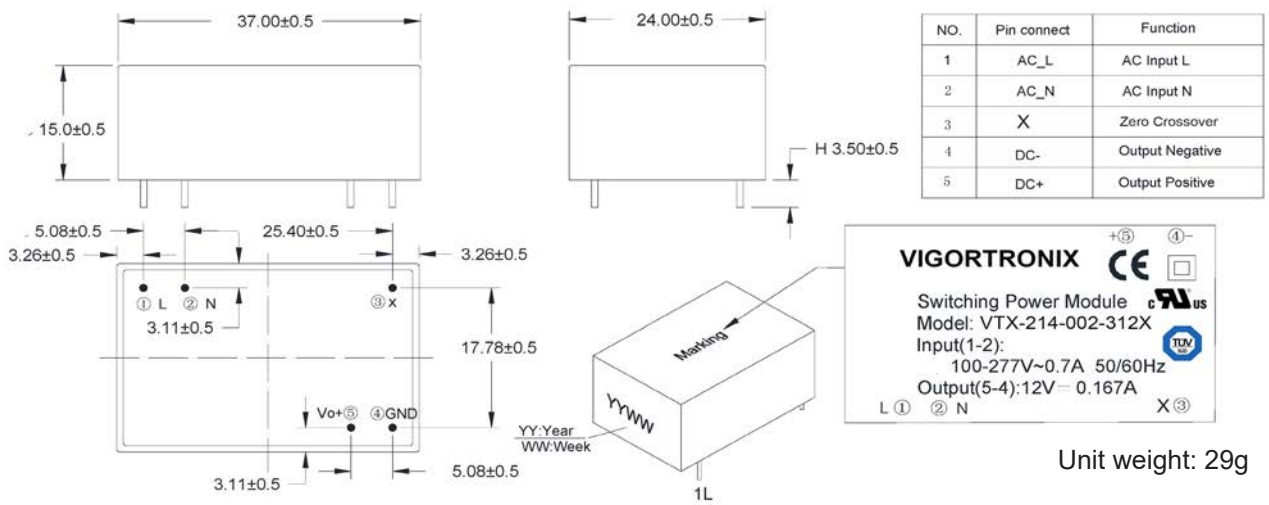
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## Converter Schematic

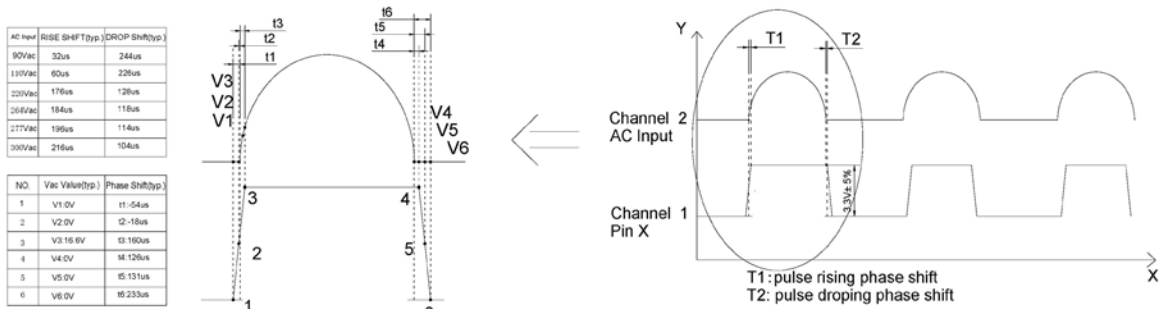


Notes:  
It is optional to fit a 0.1uF/275V X2 Capacitor on the Input for EMC

## Dimensions:

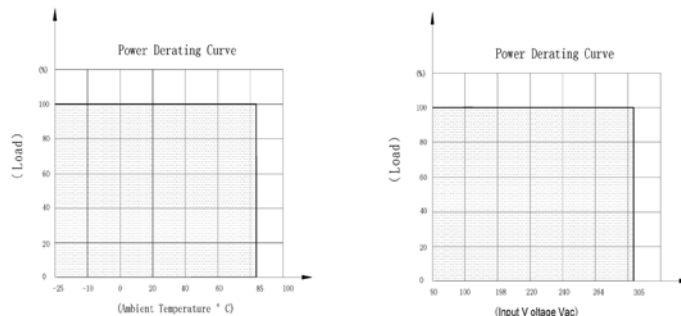


## Phase Shift



**Phase shift:** When input AC signal crossing with X axis, the output zero crossing detection signal pulse reversal, the delta-T between the two signal. Where: a. Pulse rising edge shift @ VAC=0 : AC Signal from 0 voltage to max value. Here is T1. b. Pulse dropping edge shift @ VAC=0 : AC Signal from max value to 0 Voltage Here is T2

## Derating Graph:



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