3 Watt AC-DC Converters
Zero Crossing Series

Features:

- Zero Crossing Feature - NEW
- 3W 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-214-003-303X	**3**	3.3	900	85	>72%	90 - 305VAC
VTX-214-003-305X	**3**	5	600			
VTX-214-003-306X	**3**	6	500			
VTX-214-003-307X	**3**	7.5	400			
VTX-214-003-308X	**3**	8	375			
VTX-214-003-309X	**3**	9	333			
VTX-214-003-310X	**3**	10	300			
VTX-214-003-312X	**3**	12	250			
VTX-214-003-315X	**3**	15	200			
VTX-214-003-318X	**3**	18	166			
VTX-214-003-324X	**3**	24	125			
VTX-214-003-348X	**3**	48	62			
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:

Please contact Vigortronix for any enquiries. Products can be altered to suit custom requirements.

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Model: 3 Watt		Specification
INPUT **Pin 1: L** **Pin 2: N**	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
OUTPUT **Pin 5: DC+** **Pin 4: 0V** **Pin 3: Zero Crossing**	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
Protection	Over Power	Hiccup mode
	Over Voltage	Hiccup mode
	Short Circuit Protection	Hiccup mode
Dielectric Isolation	Input to Output	3600Vrms
Enviroment	Operating Temperature	-25^{O}C ~ +85^{O}C (See Derating Curve)
	Storage Temperature	-40^{O}C ~ +105^{O}C
	MTBF	>1,000,000Hrs @ 25^{O}C (MIL-HDBK-217F)
	Weight	29g
Safety	Agency Standards	Compliance with IEC60950-1, EN60950-1, IEC61558-1 EN61558-1, EN61558-2-6, EN61558-2-17
EMC	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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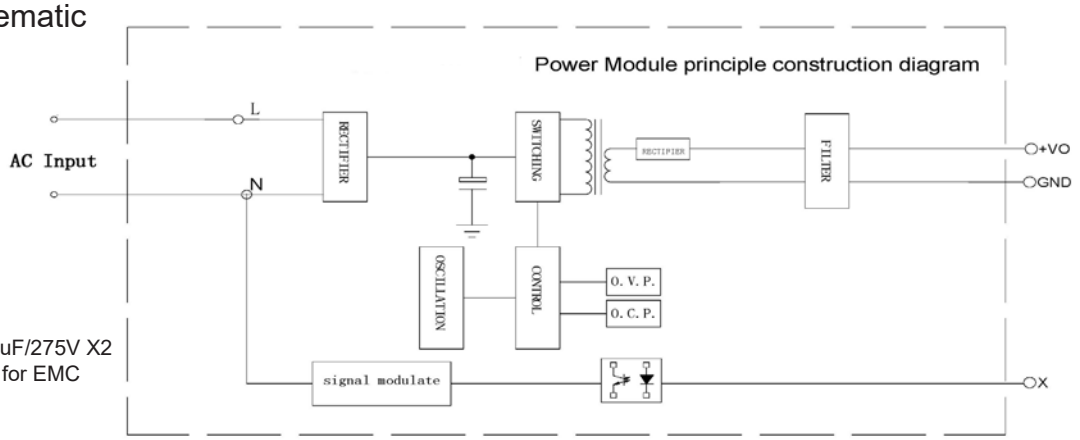
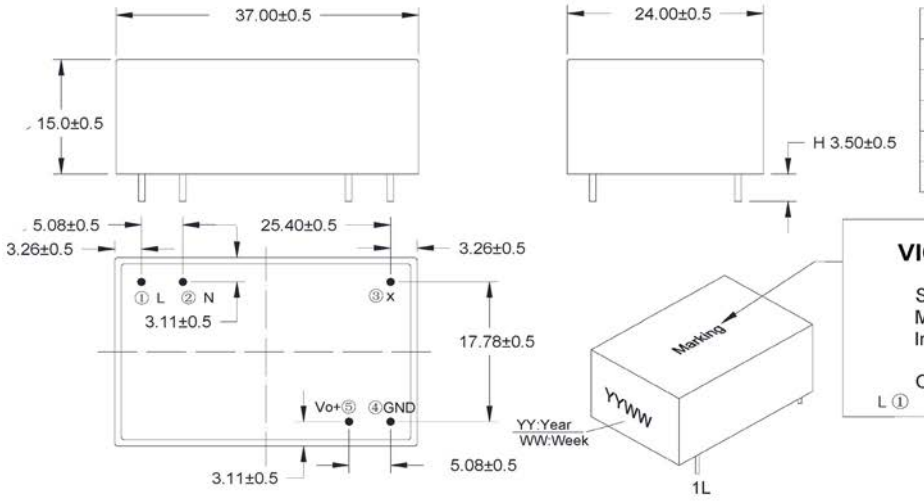
Converter Schematic



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

Dimensions:



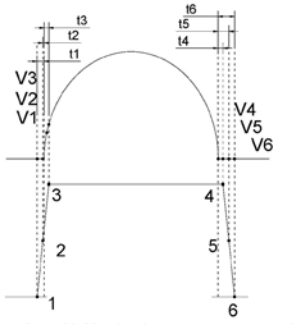
NO.	Pin connect	Function
1	AC_L	AC Input L
2	AC_N	AC Input N
3	X	Zero Crossover
4	DC-	Output Negative
5	DC+	Output Positive

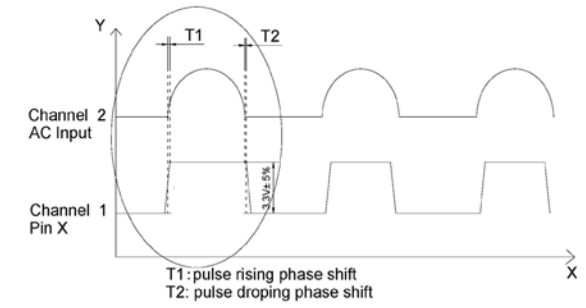
Unit weight: 29g

Phase Shift

AC Input	RISE SHIFT(typ.)	DROP Shift(typ.)
90Vac	32us	244us
110Vac	60us	226us
220Vac	176us	128us
264Vac	184us	118us
277Vac	196us	114us
300Vac	216us	104us

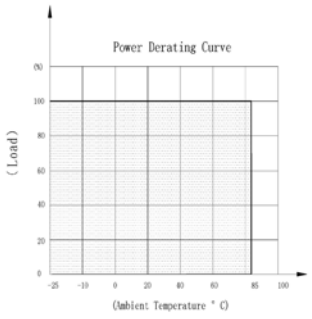
NO.	Vac Value(typ.)	Phase Shift(typ.)
1	V1:0V	t1:-54us
2	V2:0V	t2:-18us
3	V3:16.6V	t3:160us
4	V4:0V	t4:126us
5	V5:0V	t5:131us
6	V6:0V	t6:233us

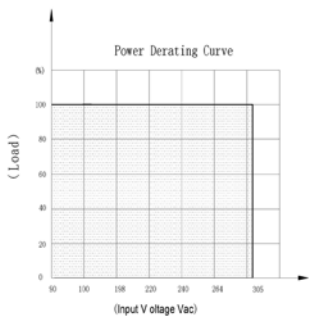




Phase shift: When input AC signal crossing with X axis ,the output zero crossing detection signal pulse reversal ,the delta-T between the two signal. Where:a.Pulse rising edge shift @ VAC=0 :AC Signal from 0 voltage to max value.Here is T1.b.Pulse droping edge shift @VAc=0 Singe from max value to 0 Voltage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

Derating Graph:





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