



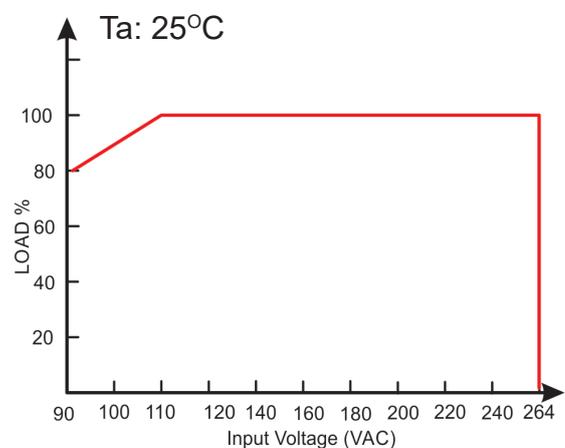
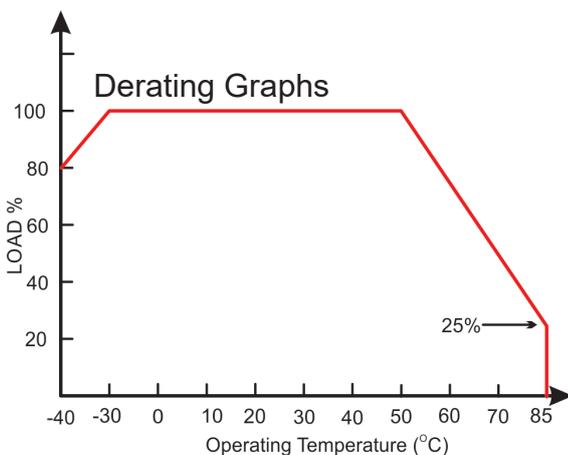
### Features:

- 60W Single Output - Regulated
- Output Range: 12V - 24VDC
- Input: 90 - 264VAC , 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,

| Part Number  | Power Rating Watts | Output Voltage (Vdc) | Output Current (mA) | Ambient Temp. (°C) | Efficiency Typical | Input Range                 |
|--|--------------------|----------------------|---------------------|--------------------|--------------------|-----------------------------|
| VTX-214-060-112  | 60                 | 12                   | 5000                | 70                 | >88%               | 90 - 264VAC<br>(120-370VDC) |
| VTX-214-060-115  | 60                 | 15                   | 4000                |                    |                    |                             |
| VTX-214-060-124  | 60                 | 24                   | 2500                |                    |                    |                             |
| <b>Note: Other output voltages are available upon request.</b> |                    |                      |                     |                    |                    |                             |

### Maximum Capacitive Load:

- 12V: 6000uF
- 15V: 5000uF
- 24V: 2500uF



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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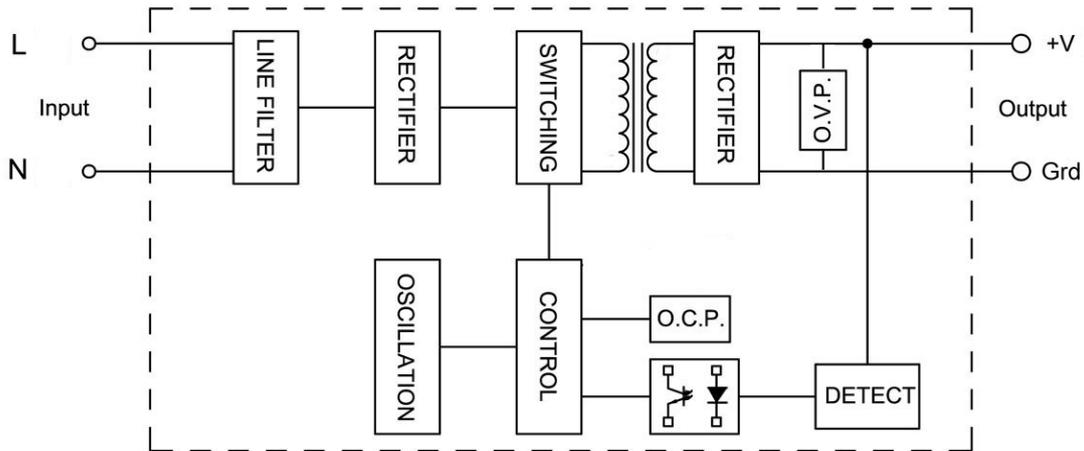
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| Model: 60Watt  |                          | Specification                                     |
|--|--------------------------|---|
| <b>INPUT</b><br>Pin 1: L<br>Pin 2: N                         | Voltage Range            | 90 - 264VAC / 47 - 440Hz<br>(120 ~ 370VDC)        |
|  | Current                  | 1500mA Max (115VAC) / 1000mA Max (230VAC)         |
|  | Inrush Current           | 45A Max (115VAC) / 90A Max (230VAC)               |
|  | No Load power            | 0.1W  |
|  | Leakage Current          | 0.25 mA Max (230VAC)                              |
| <b>OUTPUT</b><br>Pin 3: VDC+<br>Pin 5: VDC-<br>Pin 4: No Pin | Voltage Accuracy         | +/- 2%  |
|  | Ripple                   | <240mV Max (Vp-p)                                 |
|  | Noise                    | <240mV Max (Vp-p)                                 |
|  | Efficiency               | >89%  |
|  | Load Regulation          | +/-2.5%   |
|  | Hold Up Time             | 30mS TYP. (230 VAC)                               |
|  | Minimum Load             | 0   |
| <b>Protection</b>  | Over Power               | Hiccup mode                                       |
|  | Over Voltage             | Zener Diode clamp                                 |
|  | Short Circuit Protection | Hiccup mode                                       |
| <b>Dielectric Isolation</b>                                  | Input to Output          | 4000Vrms, 2Sec Min.                               |
| <b>Environment</b>   | Operating Temperature    | -40°C - +85°C (With Derating)                     |
|  | Storage Temperature      | -40°C - +85°C                                     |
|  | MTBF                     | >300,000Hrs @ 25°C (MIL-HDBK-217F)                |
|  | Weight                   | 158g  |
|  | Cooling Method           | Free Air convection                               |
| <b>Safety</b>  | Compliant Standards      | UL/IEC/EN62368-1, IEC/EN60335-1, IEC/EN61558-2-16 |
| <b>EMC</b>   | EMI                      | Compliance with EN55032 Class B                   |
|  | EMS                      | Compliance with EN55035                           |

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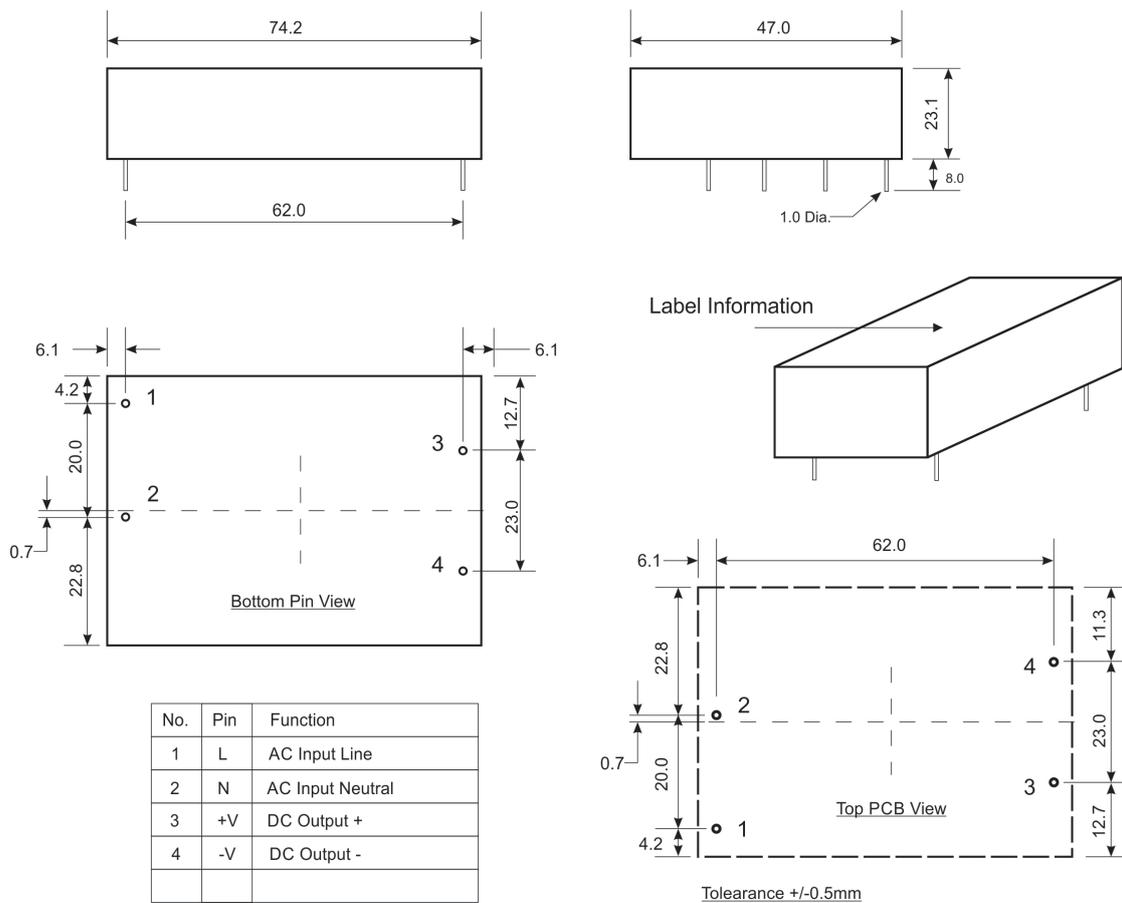
## Schematic Diagram



### 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: 158g

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