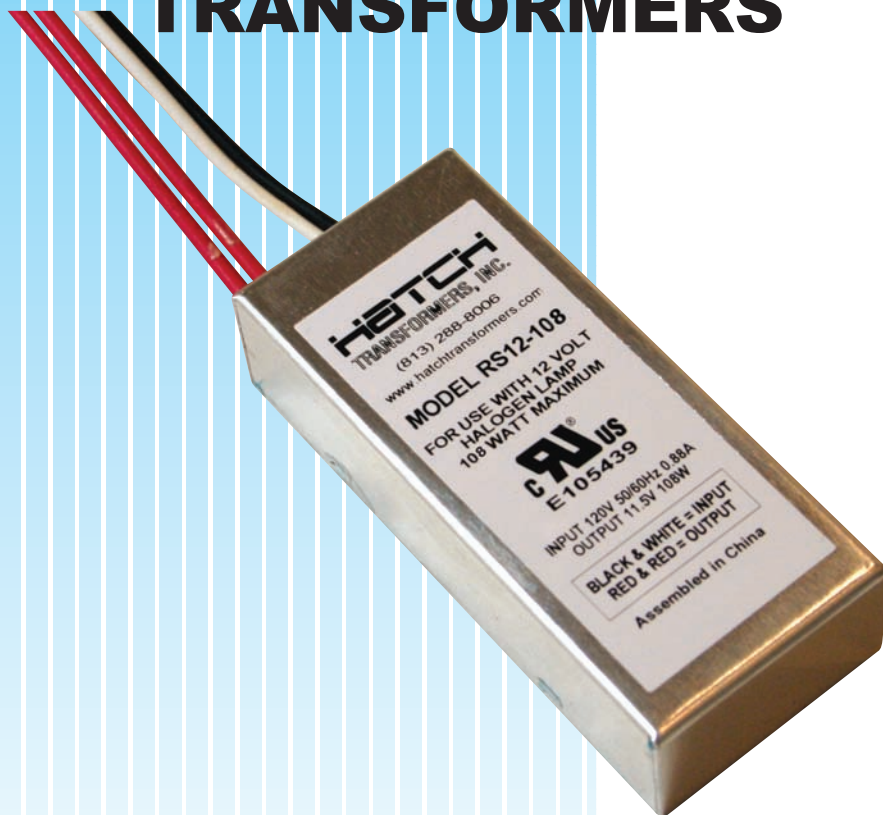


## 108 WATT "RS" SERIES ELECTRONIC TRANSFORMERS



**RS12-108**

### Electrical/Mechanical Specifications

#### Soft Start Circuitry

All models of Hatch low-voltage transformers utilize a soft start circuitry to maximize lamp life. The soft start circuit ramps up the lamp filament voltage slowly when the lamp is cold.

NOTE: Instant Start on Hot Lamp Re-Strike

#### Electronic Short-Circuit Protection

All Hatch low-voltage transformers employ our (ESP) Electronic Short Circuit and over load Protection. The ESP sensing circuit will instantly shut down the output before any of the components are stressed if a short circuit or over load is detected. The transformer will automatically reset as soon as the fault is corrected.


NOTE: High temperature 3M double sided tape available for use with side lead models only for mounting transformer to enclosure.

## 108 Watt RS Series


### Electronic Low Voltage Transformer Product Features:

- High Reliability
- Moisture Resistant
- Emits No Audible Noise
- Low Harmonic Distortion
- High Power Factor
- Lightweight, Compact Design
- Small Case Size
- Works with most commercially available dimmers. Hardwire electronic dimmers are recommended for optimum performance. (See notes on back page.)

### Environmental Specifications

|                                     |  |
|-------------------------------------|--|
| <b>Maximum Case Temperature</b>     | 80°C   |
| <b>Minimum Starting Temperature</b> | -30°C  |
| <b>Sound Rating</b>                 | A+   |
| <b>Operating Humidity</b>           | 95% relative humidity, non-condensating  |
| <b>Environmental Protection</b>     | Epoxy Sealed for moisture resistance and shock/vibration resistance  |
| <b>Safety Listing</b>               |  Class P Type 1 outdoor |

### Electrical/Mechanical Specifications

|                                  |   |
|----------------------------------|---|
| <b>Input</b>                     | 120VAC or 277VAC - 50/60 Hz   |
| <b>Output</b>                    | 11.5 VAC or 23.5 VAC  |
| <b>Enclosure Material</b>        | Aluminum  |
| <b>Weight</b>                    | 4 oz.   |
| <b>Power Factor</b>              | > 0.95  |
| <b>Operating Frequency</b>       | 25 KHz  |
| <b>Total Harmonic Distortion</b> | ≤ 20%   |
| <b>Safety Standard</b>           |  |
| <b>Input Leads</b>               | .6", 18AWG stranded, 105 degree C stripped 3/8" tinned                                |
| <b>Output Leads</b>              | .6", 18AWG stranded, 105 degree C stripped 3/8" tinned                                |



Hatch Transformers, Inc.

5403 West Gray Street, Tampa Florida 33609 • Ph: 813-288-8006 • Fax: 813-288-8105 • www.hatchtransformers.com

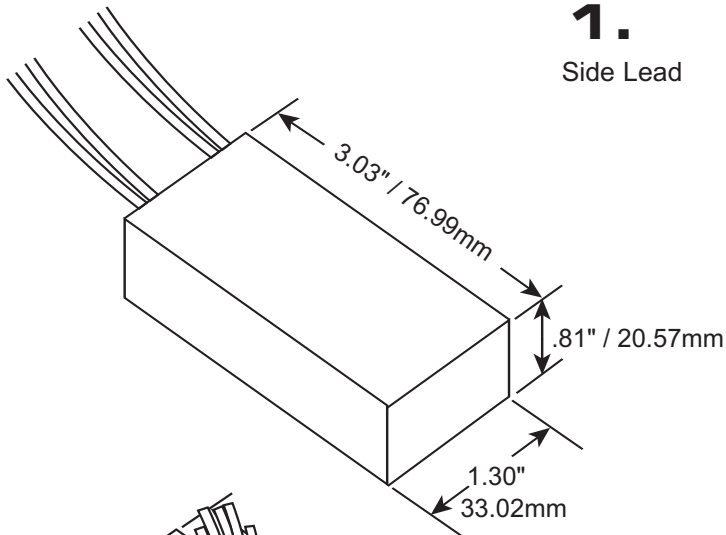
# Electronic Transformer

## 108 Watt RS Series

### DIMENSIONS

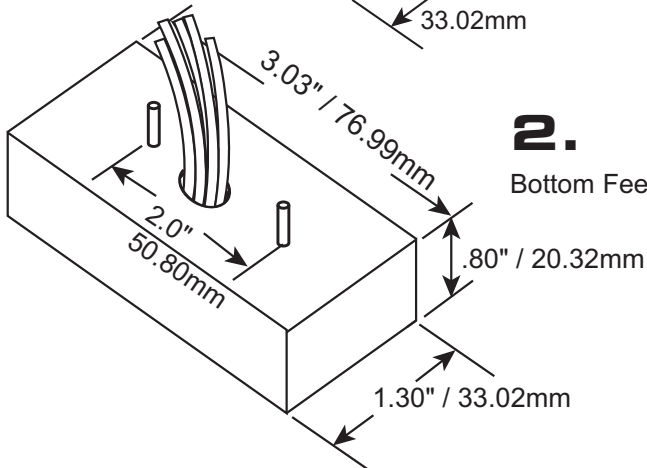
**1.**

Side Lead



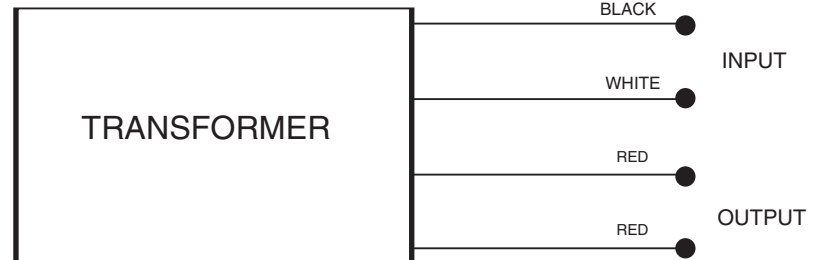
**2.**

Bottom Feed



### WIRING DIAGRAMS

DIAGRAM A



### HARDWIRE ELECTRONIC

| Max Watts | Min Watts | Input Volts | Input Amps | Output Volts | Output Amps | Case Style | Wiring Dia. | Hatch Item No. | Safety Listing     |
|-----------|-----------|-------------|------------|--------------|-------------|------------|-------------|----------------|--------------------|
| 108       | 5         | 120         | 0.90       | 11.5         | 9.4         | 1          | A           | RS12-108       | UL/C-UL Recognized |
|           |           |             |            | 23.5         | 4.6         | 2          | A           | RS12-108BF     |                    |
|           |           |             |            | 11.5         | 9.4         | 1          | A           | RS24-108       |                    |
|           |           | 277         | 0.39       | 11.5         | 9.4         | 1          | A           | RS12-108-277   |                    |
|           |           |             |            |              |             | 2          | A           | RS12-108-277BF |                    |

\*Note: Must use a minimum of 10 watts when using dimmers. It is also important to confirm dimming controls compatibility with the manufacturer and your Hatch representative.

Specifications subject to change  
without notice. 11/08

# HATCH

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