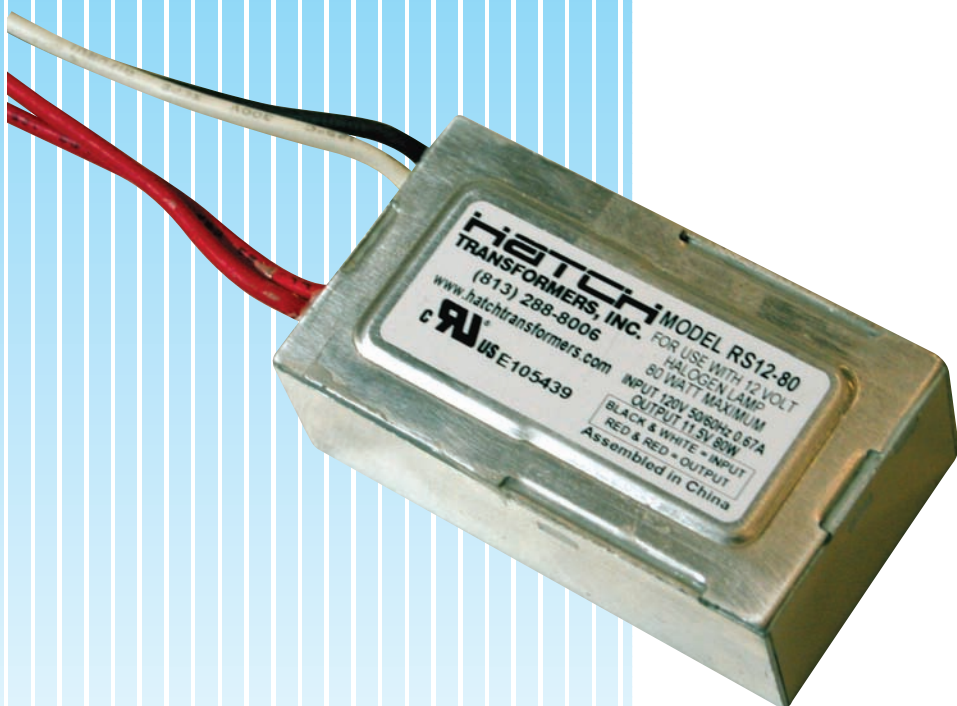


# Electronic Transformers

## 60 & 80 WATT "RS" SERIES ELECTRONIC TRANSFORMERS



**RS12-60 & RS12-80**

### 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.


## 60 & 80 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>	90°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

\* Does not apply to RS 12-80-277 which is 80°C

### Electrical/Mechanical Specifications

<b>Input</b> .....	120VAC, 277VAC or 230VAC - 50/60 Hz
<b>Output</b> .....	11.5 VAC or 23.5 VAC
<b>Enclosure Material</b> .....	Metal
<b>Weight</b> .....	2.4 oz.
<b>Power Factor</b> .....	> 0.95
<b>Operating Frequency</b> .....	25 KHz
<b>Total Harmonic Distortion</b> .....	≤ 20%
<b>Safety Standard</b> .....	 (Class 2-up to 60 Watt only)
<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

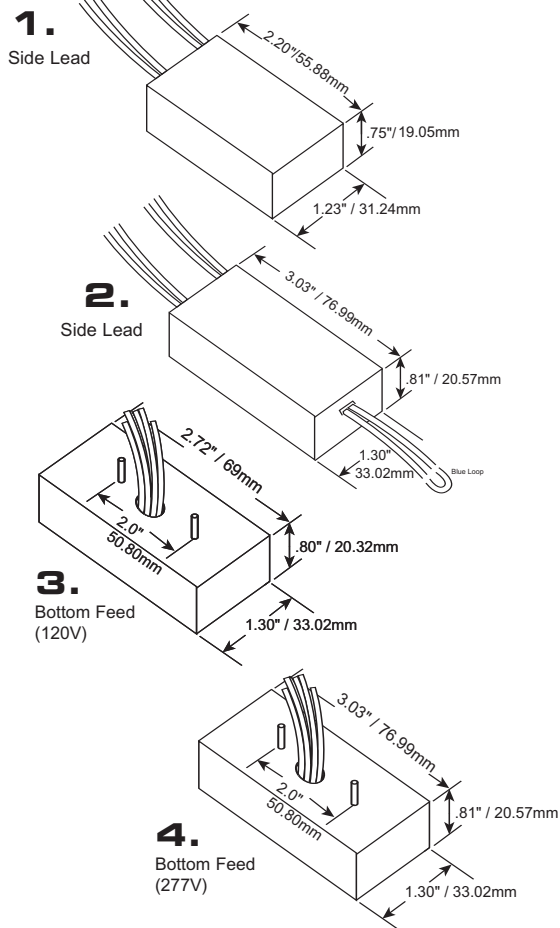
Hatch Transformers, Inc.

7821 Woodland Center Boulevard Tampa, FL 33614 • Ph: 813-288-8006 • Fax: 813-288-8105 • [www.hatchtransformers.com](http://www.hatchtransformers.com)

# Electronic Transformer

## 60 & 80 Watt RS Metal Series

### DIMENSIONS



### WIRING DIAGRAMS

DIAGRAM A

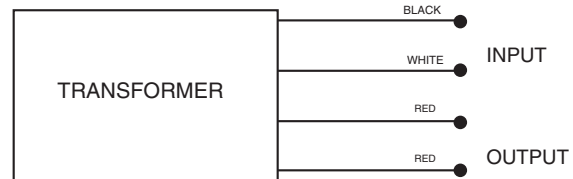


DIAGRAM B

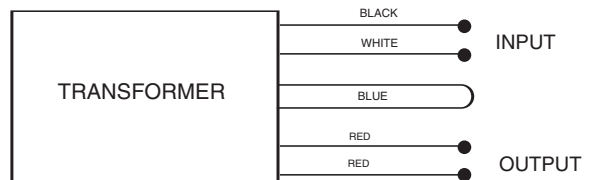
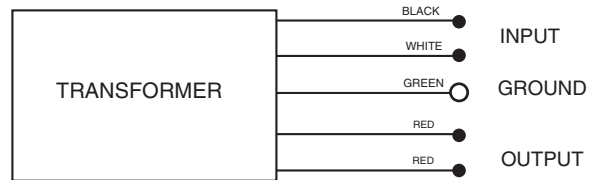


DIAGRAM C



Note: RS12-80MGN model has no terminal but has grounding wire.

### WD MODELS HAVE DIMMING LOOP

(WD Models have dimming loop for use with 1 meg ohm potentiometer versus line side dimmer controls)

### HARDWARE ELECTRONIC

Max Watts	Min Watts*	Input Volts	Input Amps	Output Volts	Output Amps	Case Style	Wiring Dia.	Hatch Item No.	Safety Listing
60	5	120	0.50	11.5	5.3	1	A	RS12-60	UL/C-UL Recognized, Class 2
							B	RS12-60MWD	
						3	A	RS12-60-BF	
80	10	120	0.67	11.5	7.0	1	A	RS12-80	UL/C-UL Recognized
						1	C	RS12-80MG	
						1	C	RS12-80MGN	
						1	B	RS12-80WD	
						3	A	RS12-80BF	
		230	0.35	11.5	7.0	1	A	RS24-80	
						1	A	RS12-80-230	
		277	0.29	11.5	7.0	1	A	RS12-80-277	
						2	B	RS12-80-277WD	
						4	A	RS12-80-277BF	

\*Note: Must use a minimum of 20 watts when using dimmers. It is also important to confirm dimming controls compatibility with the manufacturer and your Hatch representative.



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Specifications subject to change without notice. C409