# RS Hardwire Transformers 60 & 80 Watt Models

90°C

## **ELECTRONIC LOW VOLTAGE TRANSFORMER**

Input Voltage	120Vac, 277VAC or 230VAC - 50-60Hz
Output	11.5 VAC or 23.5 VAC
Enclosure Material	Aluminum
Weight	0.21 lbs
Power Factor	> 0.95
Operating Frequency	25KHz
Total Harmonic Distortion	≤ 20%
Input	6", 18AWG stranded, 105 degree C stripped 3/8" tinned
Output	6", 18AWG stranded,

ENVIRONMENTALSPE	CIFICATIONS:
Maximum Case	

Temperature	
Minimum Starting Temperature	-30°C
Sound Rating	A+
Operating Humidity	95% relative humidity, non-condensating

Environmental Epoxy Sealed for moisture resistance and shock/vibration resistance

#### **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.

#### **APPROVALS:**

- Class P Type 1 Outdoors

- Class 2 Approved





## ELECTRICAL FEATURES:

### **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 overload 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.

#### HARDWIRE ELECTRONIC

Max Watts	Min Watts	Hatch Part Number	Input Volts	Output Volts	Input Amps	Output Amps	Case Style	Wire Diagram	Safety Listing
60	5	RS12-60M	120 11.5	11.5	0.5	5.3	А	I	- UL/C-UL Recognized,
		RS12-60MWD					D	II	
		RS12-60-BF				В	ļ	Class 2	
80 Watt									
80	5	RS12-80	120	11.5	0.67	7.0	Α	I	- - - UL/C-UL
		RS12-80MG					А	IV	
		RS12-80MGN					А	IV	
		RS12-80MWD					D	III	
		RS12-80BFS					В	ļ	
		RS12-80-230	230		0.35	7.0	Α	ļ	Recognized
		RS12-80-277*		11.5	0.29	7.0	Α	ļ	
		RS12-80-277WD*	277				D	III	
		RS12-80-277BF*					С	I	

<sup>\*</sup> 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. 277 Volt dimming is not recomended.

#### DIMENSIONAL & WIRE DIAGRAMS CAN BE FOUND ON PAGE 2

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