

H A R D W I R E E L E C T R O N I C

Max Watts	Min Watts	Input Volts	Output Volts	Input Amps	Output Amps	Case Style	Wiring Dia.	Hatch Item No.	Safety Listing
20	10	120	11.5	0.16	1.7	1		BD100	
60	20	120	11.5	0.52	5.2	2	A	VS12-60W	UL Recognized, Class 2, CSA or C-UL
						2	B	VS12-60WD	
						3	A	RS12-60NW	
			23.5	0.52	2.6	2	A	VS24-60W	
		230	11.5	0.26	5.2	2	A	VE12-60W	
75	20	120	11.5	0.63	6.25	2	A	VS12-75W	UL Recognized, CSA or C-UL
						2	A	VS12-75WD	
						4	C	IS12-75	
						3	B	RS12-75NW	
								BF UNIT	
		230	11.5	0.27	6.25	2	A	VE12-75W	
		277	11.5	0.27	6.25	2	A	VJ12-75W	
105	50	120	11.5	0.88	9.2	14	C	VS12-105J	UL Recognized, CSA or C-UL
			23.5	0.88	4.5	14	C	VS24-105J	
150	50	120	11.5	1.25	12.9	14	C	VS12-150J	UL Recognized, CSA or C-UL
			20.0	1.25	5.5	14	D	VS21-150AF	
			23.5	1.25	6.4	14	C	VS24-150J	
300	100	120	11.5	2.5	25.5	20	C	VS12-300J	
300DC	Please Consult Factory								
JBA-75	Used to mount 60 and 75 watt transformers to 1/2" knockout in a junction box								

P L U G - I N E L E C T R O N I C

Max Watts	Min Watts	Input Volts	Output Volts	Input Amps	Output Amps	Output Leads	Case Style	Case Color	Hatch Item No.	Safety Listing
20	10	120	11.5	0.16	1.7	10'	7	Black	PS12-20LB	UL Listed, Class 2 CSA Certified
							7	White	PS12-20LW	
60	20	120	11.5	0.52	5.2	10'	9	Black	PS12-60LB	
			11.5	0.52	5.2	10'	9	White	PS12-60LW	
			23.5	0.52	5.2	10'	9	Black	PS24-60LB	
			11.5	0.52	5.2	10'	10	Black	VS12-60SG	
75	20	120	11.5	0.63	6.3	10'	9	Black	PS12-75LB	UL Listed, CSA or C-UL
							9	White	PS12-75LW	

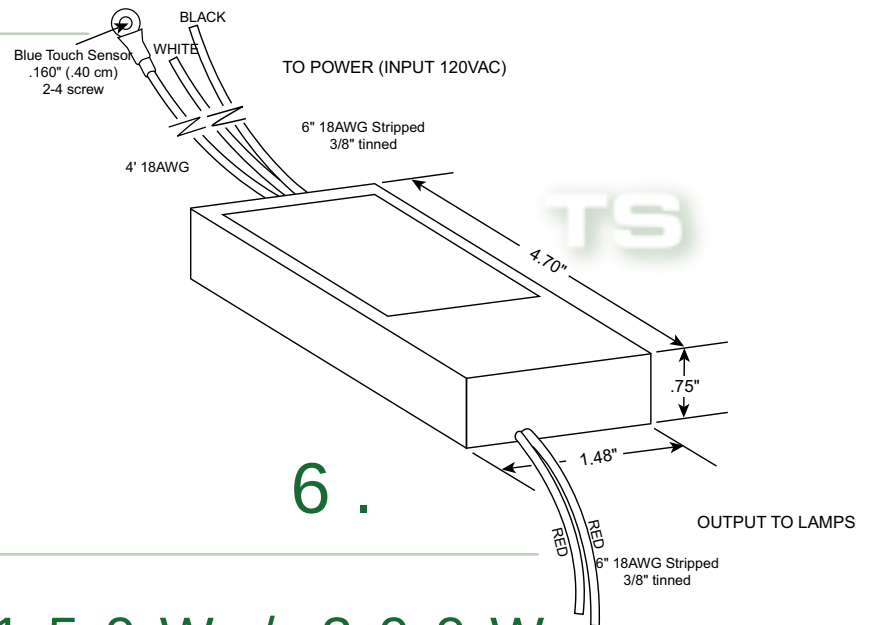
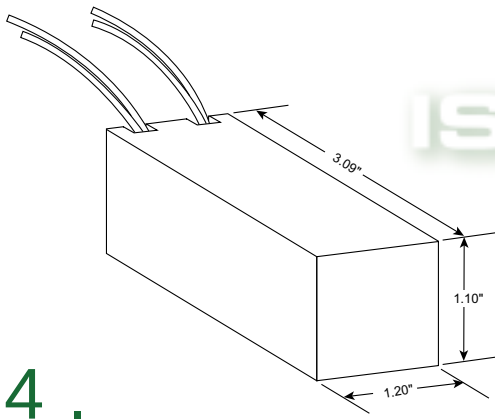
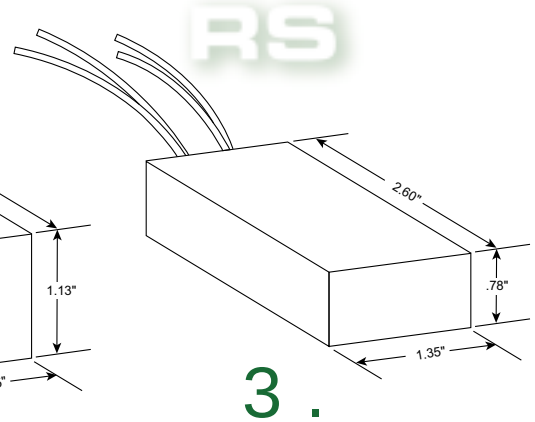
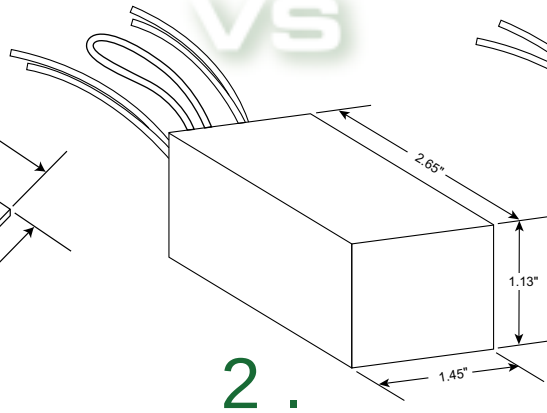
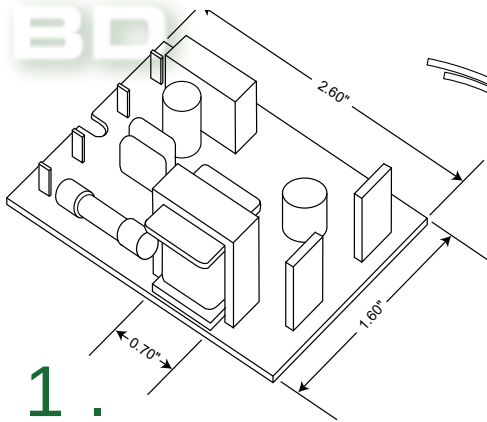
T O U C H D I M M I N G E L E C T R O N I C

Max Watts	Min Watts	Input Volts	Output Volts	Input Amps	Output Amps	Case Style	Wiring Dia.	Hatch Item No.	Safety Listing
60	20	120	11.5	0.53	5.2	6	C	TS12-60S	UL Recognized Class 2, C-UL
						8	C	TS12-60SHH	

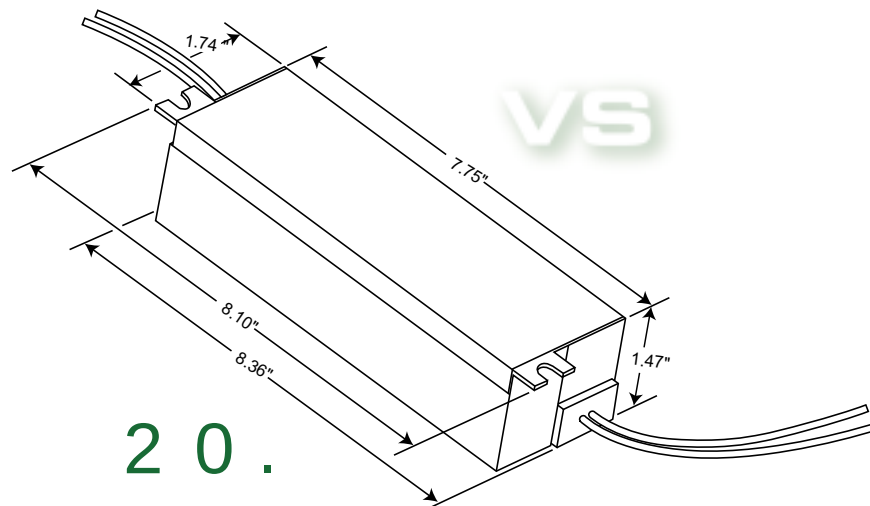
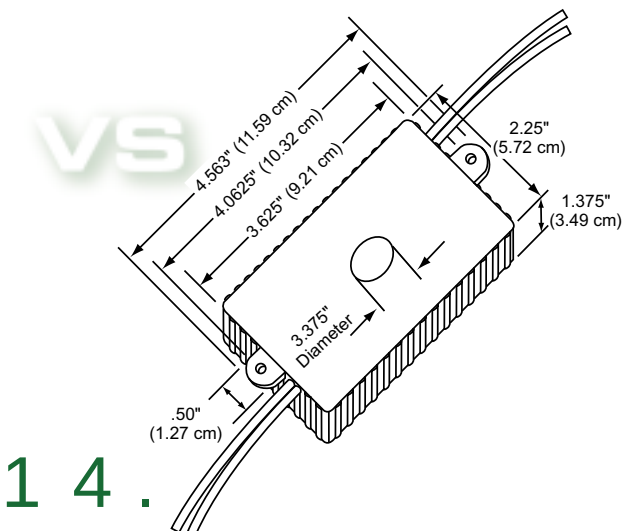
All Hatch Electronic Transformers are 100% Factory Tested • Custom Designs to OEM Specifications

ELECTRONIC HARDWARE

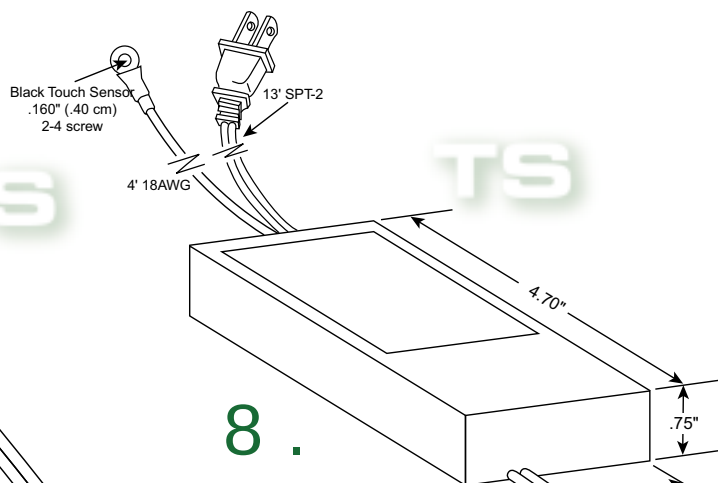
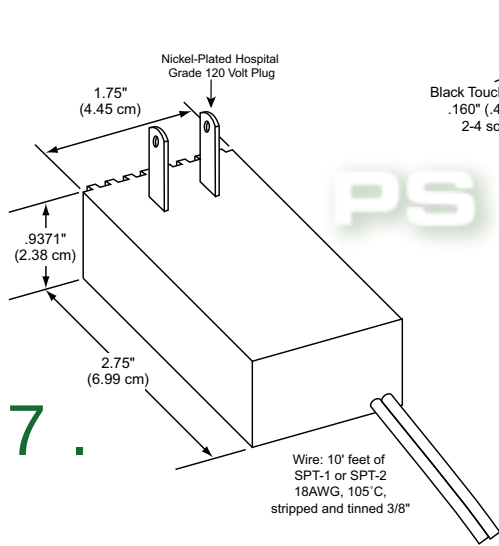
20W / 60W / 75W



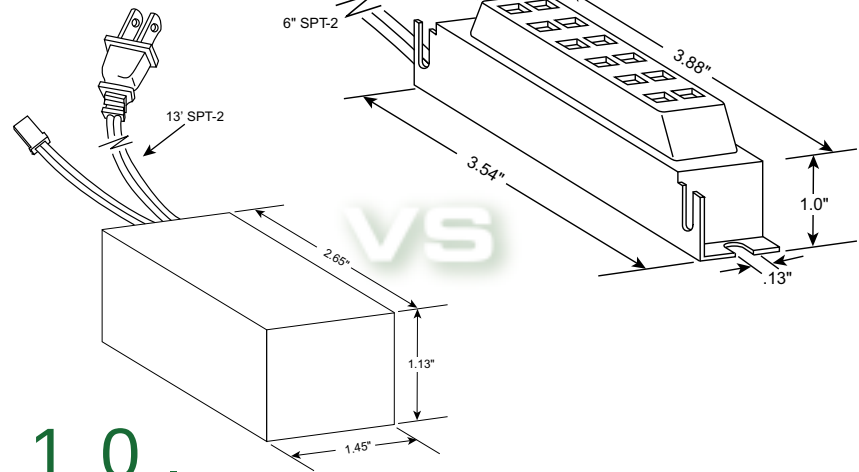
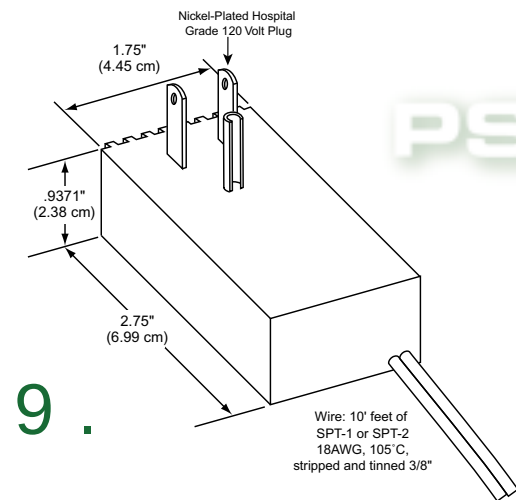
105W / 150W / 300W



ELECTRONIC PLUG-IN



Note: Connector block is compatible with amp P/N mini Mate-N-Lock. Connectors-amp plug 172336-1, amp pin 171636-1, 171638-1



WIRING DIAGRAMS

WIRING DIAGRAMS

DIAGRAM A

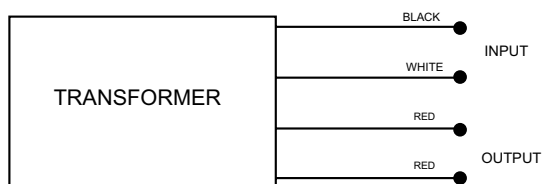


DIAGRAM C



DIAGRAM B

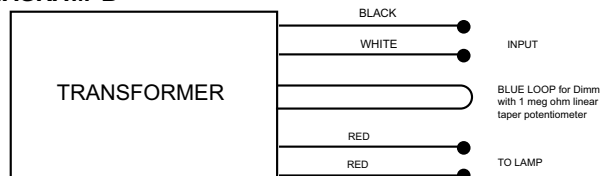
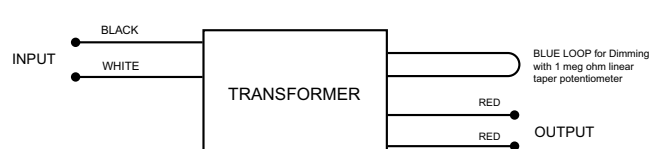
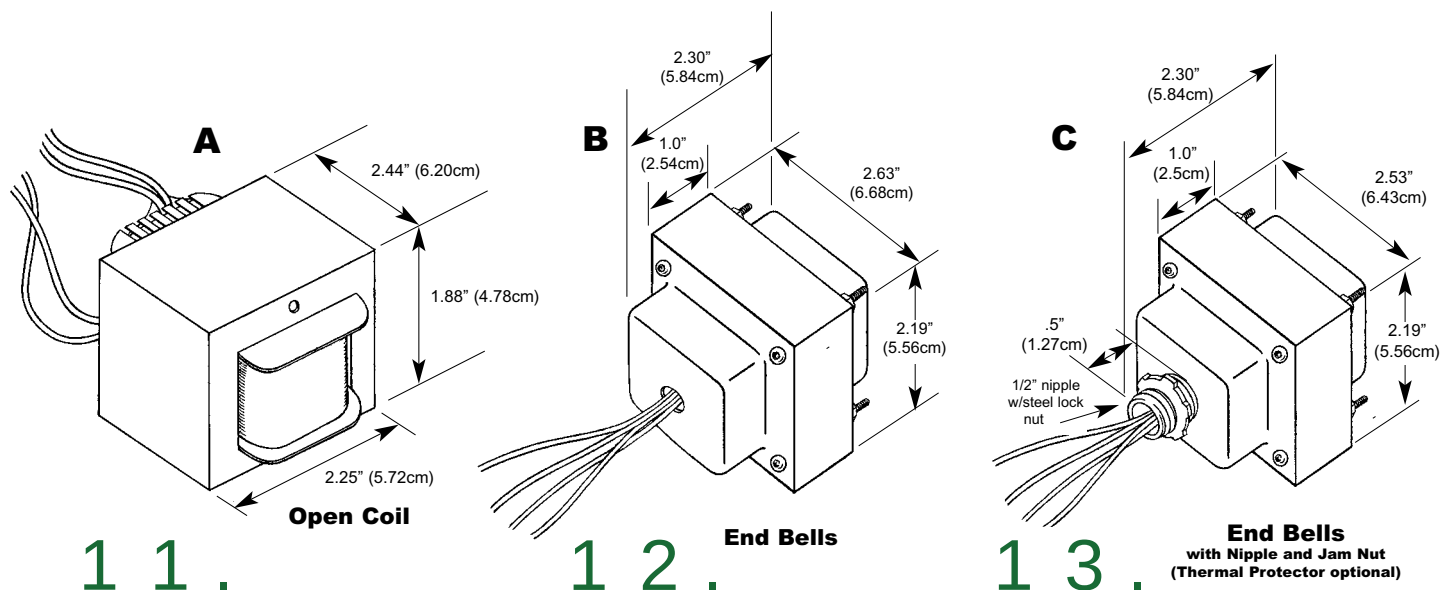


DIAGRAM D



MAGNETIC HARDWIRE



HARDWIRE MAGNETIC TRANSFORMER

Max Watts	Input Volts	Output Volts	Input Amps	Output Amps	Open Coil	End Bells	End Bells W/Nipples	Thermal Protection	Case Style	Wiring Dia.	Hatch Item No.	Safety Listing
50	120	11.5	0.44	4.2	Y				11	A	LS12-50	UL Recognized
						Y			12	A	LS12-50E	
									13	A	LS12-50EN	
							Y	Y	13	A	LS12-50ENT	
75	120	11.5	0.68	6.25	Y						LS12-75	UL Recognized
						Y					LS12-75E	
											LS12-75EN	
							Y				LS 12-75 ENT	

Custom Configurations Available • Dimmable

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.

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 short is corrected.

Features:

- High Reliability
- Moisture and Shock Resistant
- Emits No Audible Noise
- Low Harmonic Distortion*
- High Power Factor*
- Lightweight, Compact Design*
- Touch Dimming (4 Levels and Off)**
- Touch Metal Can be Any Size
- Unaffected by Power Fluctuation or Outage**

* Plug In & Electronic Transformers

** Touch Dimming Electronic Transformers

HATCH
TRANSFORMERS, INC.

Electrical/Mechanical Specifications

	60 watt	75 watt	Magnetic	105 Watt	150 watt
<u>Enclosure Material</u>	UL Recognized, Flame Retardant, High Temperature, Engineering Resin			UL Recognized, Flame Retardant, High Temperature, Engineering Resin	
<u>Insulation Class</u>			Class H 180°		
<u>Core Material</u>			Laminated Steel E1		
<u>Varnish TempRating</u>			215°C		
<u>End Bell Material</u>			Steel		
<u>Color</u>	Black	Black		Black	Black
<u>Weight</u>	4 oz.	4 oz.	27 oz.	9.5 oz.	9.5 oz.
<u>PowerFactor</u>	>.95	>.95		>.95	>.95
<u>Operating Frequency</u>	25 KHz	25 KHz	60 Hz	25 KHz	25 KHz
<u>Total Harmonic Distortion</u>	≤ 20%	≤ 20%		≤ 20%	≤ 20%
<u>Safety Standard</u>	UL Recognized, (Class 2-up to 60 Watt only) CSA Certified or C-UL or UL Listed		UL Recognized or UL Listed	UL Recognized, CSA Certified, or C-UL or UL Listed	
<u>Input Leads</u>	6", 18AWG Stranded, 105°C Stripped, 3/8" Tinned		6", 18AWG Stranded Fiberglass Braid over Silicone Rubber 180°C, Stripped 1/2" Black, White	6", 18AWG Stranded, 105°C Stripped, 3/8" Tinned	
<u>Output Leads</u>	6", 18AWG Stranded, 105°C Stripped, 3/8" Tinned		6", 18AWG Stranded Fiberglass Braid over Silicone Rubber 180°C, Stripped 1/2" Red, Red	6", 18AWG Stranded, 105°C Stripped, 3/8" Tinned	

Environmental Specifications

Maximum Operating Case Temperature

80°C*

Sound Rating

A

Operating Humidity

95% Relative Humidity, Non-Condensating

* Touch Dimming Transformers 75°C

Environmental Protection

Epoxy Sealed for moisture resistance

NO PCBs

HATCH
TRANSFORMERS, INC.

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