

## SELECTING A TRANSFORMER: MAGNETIC VS ELECTRONIC

The transformer is the key to a low-voltage system. The total output wattage of the transformer determines the total wattage of the ELEMENT fixtures that can be powered. For example, a 300 watt transformer can power up to six 50 watt lamps ( $6 \times 50 = 300$ ). There are several transformer options from which to choose. Knowing the advantages of each will help you to select the best transformer.



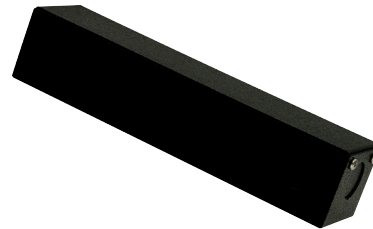
### MAGNETIC TRANSFORMER

Magnetic transformers have historically been the choice of lighting professionals due to their reliability. We offer a wide range of output wattages for magnetic transformers. When dimming a magnetic transformer, it is important to use a low-voltage magnetic dimmer. A magnetic transformer cannot be used with LED MR16 replacement lamps.



### ELECTRONIC TRANSFORMER

Electronic transformers are much smaller and lighter than their magnetic counterparts and have the advantage of being resettable at the wall switch in the event of a system short circuit. We offer 12 volt electronic remote transformers with 300 watt outputs. When dimming an electronic transformer, it is important to use a low-voltage electronic dimmer. An electronic transformer is required to use LED MR16 replacement lamps.



## DIMMING

All Tech Lighting transformers may be dimmed with the appropriate dimmer: a low-voltage magnetic dimmer for a magnetic transformer; a low-voltage electronic dimmer for an electronic transformer, or a standard incandescent dimmer where indicated. The dimmer is placed on the line-voltage side of the input line. Consult the transformer chart above for the compatible dimmer type. It is very important to use the compatible dimmer type: failure to do so can create undesirable noise and shorten the useful life of the transformer.

Remote transformers are generally placed outside the room, so any buzzing that may be caused by dimming is not noticeable. If using a remote magnetic transformer and a buzzing noise is apparent, a debuzzing dimming coil may be wired in series on one of the 120 volt input lines. Select the correct dimming coil (see below) based on the wattage of your transformer.



**SINGLE FEED TRANSFORMERS**

	INPUT VOLTAGE OUTPUT VOLTAGE WATTAGE / TYPE	ITEM NUMBER	COMPATIBLE DIMMER TYPE	COMPATIBLE DIMMING COIL	PLUG-IN TRANSFORMER OPTION INCLUDES 16' CORD	277 VOLT INPUT OPTION
	1 X 120V 12V 1 X 60 WATTS** ELECTRONIC AC	700AT060EL	Low-Voltage Electronic 450 Watts	—	—	—
	1 X 120V 12V 1 X 150 WATTS** MAGNETIC AC	700AT150T	Low-Voltage Magnetic 600 watts	700DIM150 (below)	700AT150P	700AT150T277
	1 X 120V 12V 1 X 150 WATTS** ELECTRONIC DC	700AT152EL 700AT152EL010	Low-Voltage Electronic 600 Watts	—	—	—
	1 X 120V 12V 1 X 300 WATTS** MAGNETIC AC	700AT300T	Low-Voltage Magnetic 600 Watts	700DIM300 (below)	700AT300P	700AT300T277
	1 X 120V 12V 1 X 300 WATTS** ELECTRONIC DC	700AT302EL	Low-Voltage Electronic 600 Watts	—	—	—

**GRIDS**

**DEBUZZING DIMMING COIL ALONE**

	DIAMETER	DEPTH
700DIM150	1.75"	0.75"
700DIM300	2.25"	1"
700DIM600	4.75"	1"

**PROJECT INFO**

FIXTURE TYPE & QUANTITY	JOB NAME & INFO	NOTES

**ELEMENT**  
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