

## 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.



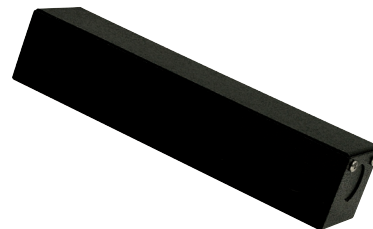
## MAGNETIC TRANSFORMER

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	277 VOLT INPUT OPTION
	1 x 120V 12V 1 x 150 watts Magnetic	700AT150T	Low-voltage Magnetic 600 watts	700DIM150	700AT150T277
	1 x 120V 12V 1 x 300 watts Magnetic	700AT300T	Low-voltage Magnetic 600 watts	700DIM300	700AT300T277
	1 x 120V 12V 1 x 300 watts Electronic	700AT300EL	Low-voltage Magnetic 600 watts	—	—

## DUAL FEED TRANSFORMERS

	INPUT VOLTAGE OUTPUT VOLTAGE WATTAGE / TYPE	ITEM NUMBER	COMPATIBLE DIMMER TYPE	COMPATIBLE DIMMING COIL	277 VOLT INPUT OPTION
	1 x 120V 12V 2 x 300 watts magnetic	700AT600T	Low-voltage Magnetic 1000 watts	700DIM600	700AT600T277

## 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

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**ELEMENT**  
by Tech Lighting<sup>®</sup>

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