

# CONTROLLERS & TRANSFORMERS

## IMPACT LIGHTING INC'S MAGNETIC TRANSFORMERS

IMPACT LIGHTING INC'S Magnetic Transformers are built especially for LED systems. They provide the following benefits:

LED Magnetic Transformers have no minimum load requirements. They cause no flicker or any of the other side effects that can result from a lack of synchronization between voltage mode drivers and PWM low voltage drivers in the light fitting.

Perfect Dimming - IMPACT LIGHTING INC'S Magnetic Transformers are fully compatible with low voltage dimmers, in contrast to voltage mode drivers that balance the voltage in the system and prevent the dimmer from working.

Lower power consumption - IMPACT LIGHTING INC'S Magnetic Transformers bring about an improvement in efficiency of 15%, due to the avoidance of unnecessary double conversion in the circuitry.



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No RFI issues - IMPACT LIGHTING INC'S Magnetic Transformers operate at a perfect 60Hz sinus wave and so produce no radio frequency interference whatsoever.

Compact Size - IMPACT LIGHTING INC'S Magnetic Transformers are much smaller than standard magnetic transformers, use less power - working on outputs as small as 15W - and can even be placed inside lighting fixtures.

## TRANSFORMER

Input leads are 18 AWG. Output leads are 12 AWG. Lead insulation is 105 °C. The transformer uses a class B 130 °C insulation system.

## ENCLOSURE

Enclosure temperature will not exceed 70 °C @ 40 °C ambient. Wiring compartment has 2 knockouts sized for 3/4 inch screw cable connectors. The removable cover for the wiring compartment is secured in place by a screw. The enclosure is black powder coated.

## GENERAL

- Manual reset thermal circuit breaker on the secondary side.
- Controlled with a low-voltage dimmer.
- UL listed • CSA listed • UL standard 5085-1
- NEMA 3R enclosure



Max Load	Output Voltage	Length/Width/Depth
*20 W	12 V	5.03" / 2.14" / 2.00"
*40 W	12 V	5.03" / 2.14" / 2.00"
*50 W	12 V	5.03" / 2.14" / 2.00"
*60 W	12 V	6.06" / 2.59" / 2.20"
*100 W	12 V	7.56" / 3.06" / 2.94"
150 W	12 V	7.56" / 3.06" / 2.94"
300 W	12V	3.2" / 7.0" / 7.0"

### High Voltage - 277 V

Max Load	Output Voltage	Length/Width/Depth
40 W	12 V	5.03" / 2.14" / 2.00"
50 W	12 V	6.06" / 2.59" / 2.20"
60 W	12 V	5.03" / 2.14" / 2.00"
100 W	12 V	6.06" / 2.59" / 2.20"
40 W	24 V	5.03" / 2.14" / 2.00"
50 W	24 V	5.03" / 2.14" / 2.00"
60 W	24 V	5.03" / 2.14" / 2.00"
100 W	24 V	6.06" / 2.59" / 2.20"

Max Load	Output Voltage	Length/Width/Depth
*20 W	24 V	5.03" / 2.14" / 2.00"
*40 W	24 V	5.03" / 2.14" / 2.00"
*50 W	24 V	5.03" / 2.14" / 2.00"
*60 W	24 V	6.06" / 2.59" / 2.20"
*96 W	24 V	6.06" / 2.59" / 2.20"
*100 W	24 V	6.06" / 2.59" / 2.20"
150 W	24 V	7.56" / 3.06" / 2.94"
300 W	24V	3.2" / 7.0" / 7.0"

\* Note: power supply 100W or lower are class2

Max Load	100 W
Input Voltage	120 V 60 Hz
Output Voltage Full Load	11.57 VDC
Input Current Full Load	898 mA
Open Circuit Volts	12.5 VDC
Output Current Full Load	8.05 A
Efficiency	87.20%
Coil Former	Double Section Bobbin
Thermal Class	B 130 °C
Leads Primary	PVC 600 V #18
Leads Secondary	PVC 300 V #12

## ORDER INFORMATION

MODEL	POWER SUPPLY	DIM	WATTAGE	OUTPUT VOLTAGE	INPUT VOLTAGE
IL- Impact Lighting Inc.	TRS - TRANSFORMER PW - POWER SUPPLY	DIMMABLE NON	20-300	12V 24V	110 277