Magnitude
Lighting Converters

M500S24
Installation Instructions

General
This transformer is to be installed in accordance with Article 450 of the National Electric Code. The transformer must be installed in a well-ventilated area free from explosive gases and vapors. Proper operation requires the free flow of air. As this transformer is hardwired, it should only be installed by a qualified electrician.

Precautions Before Installing
Check the label and ensure the transformer has the proper input voltage, output voltage and wattage for the job. Check the wire markings to ensure they match the wiring diagram on this instruction sheet.

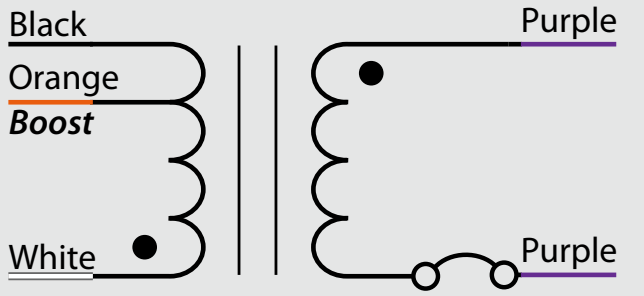
Mounting
Select a suitable location capable of supporting the weight of the transformer. Use the two keyholes in the transformer case.
It is recommended that the transformer be mounted vertically with the wiring compartment pointing up.

Input Connections/Grounding
Remove the wiring compartment knockouts and install strain reliefs. With power turned off, route the input wires through a strain relief and connect one wire to black and one wire to white. For all wire connections use only UL listed wire nuts and connectors of suitable size and type. The transformer case MUST be grounded in accordance with the N.E.C. Connect the ground wire to the transformer green wire.

Output Connections
Bring the wires of the light fixture through the other open knockout and connect connect one to each of the purple transformer wires.

Boost Tap
This transformer is equipped with an optional 10% boost tap which can compensate for voltage drop between the transformer and the lighting fixture. If the fixtures are receiving 21 V or less, we recommend you connect the boost tap. To use the boost tap, the input wires are connected to the orange and white wire instead of the black and white wire. Make certain the black wire is capped with a wire nut if you use the boost tap. Make certain the orange wire is capped with a wire nut if you do not use the boost tap.

Circuit Diagram

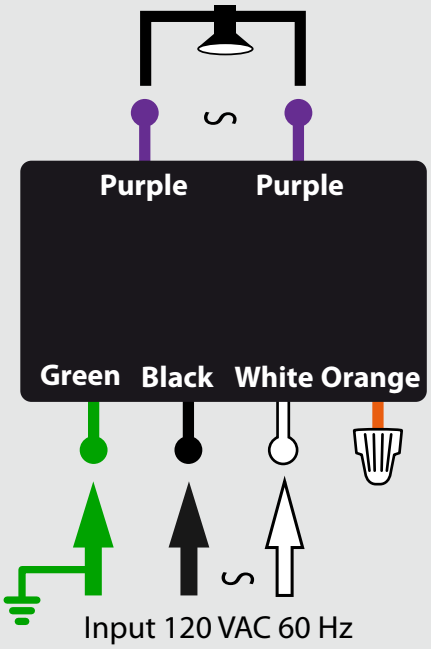


Input
120 V 60 Hz

Output
24 V / 26 V 500 W

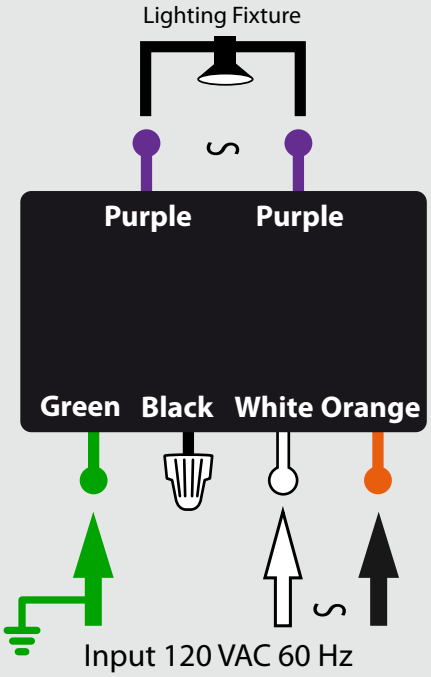
Regular Wiring

Output 24 VAC 500 W



Boost Wiring

Output 26 VAC 500 W



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