



# TOKISTAR LIGHTING INSTRUCTION MANUAL

## T12-500

## 12 VOLT/500 WATT TRANSFORMER

### General

This transformer is to be installed in accordance with Article 450 of the National Electrical 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. Only a qualified electrician should install this hardwired transformer.

### 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 provided on the mounting flange. The transformer must be mounted vertically with the wiring compartment pointing down.

### 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 transformer green wire to ground.

### Output Connections

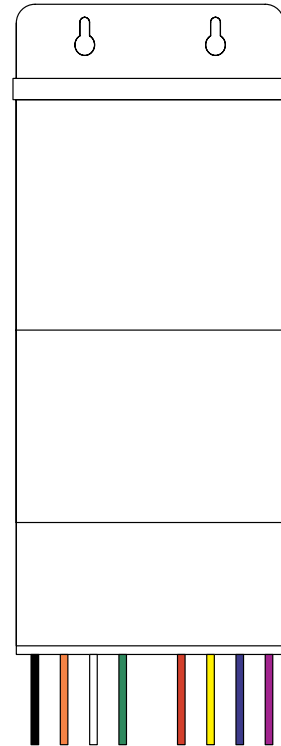
With all unused leads insulated, turn power to the unit on. Check the secondary voltage to be sure it is right for the load. Turn power to the transformer off. Remove the wiring compartment knockouts and install strain reliefs for the lead wires from the lighting fixtures. Each set of lighting fixture leads should be routed through the strain relief and connected to the Red & Yellow (circuit one) wires / Blue & Purple (circuit two) wires. On multiple output transformers, ensure that no load exceeds the rating of each of the breakers.

### 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 Volts 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.

### Transformer Data

INPUT VOLTAGE	120VAC / 60 Hz
OUTPUT VOLTAGE	12 VAC
CAPACITY (WATTS)	500 VA
INSTALLED BREAKER (s)	2 @ 25 Amps
WEIGHT	12 Pounds



**INPUT WIRES WITHOUT BOOST TAP:**  
Black & White

**INPUT WIRES WITH BOOST TAP:**  
Orange & White

**GROUND WIRE:** Green

**OUTPUT WIRES:** Red & Yellow / Blue & Purple

## TOKISTAR LIGHTING

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