



# TOKISTAR LIGHTING INSTRUCTION MANUAL

## LDR24-120

## 24VDC/120 WATT LED DRIVER

### General

Tokistar's LDR24-120 is a 120 Watt Class 2 LED Driver used to convert an AC input into a 24VDC output. It may be operated from a wide range of input voltages, and is provided within an enclosure suitable for wet locations.

### Wiring Procedures

To access both the AC and DC wiring compartments, remove the top cover by removing the 4 screws using a Philips screwdriver. Ensure the white plastic washers on each screw are not lost during removal.

### Input Connections

Install and secure the AC conduit pipe to the LED Driver's 1/2" knockout by using the proper conduit fitting hardware. The AC input wires should be protruding from the conduit pipe and into the LED Driver's AC wiring compartment.

**(Note: For installation in outdoor or wet locations, liquid tight fittings and conduit must be used for proper NEMA 3/IP65 protection.)**

Connect the AC input wires to the LED Driver using the proper UL approved wire nuts. The **Black wire** from the unit should connect to the incoming AC Line wire. The **White wire** from the unit should connect to the incoming AC Neutral wire. The **Yellow/Green wire** from the unit should connect to the incoming AC Ground wire.

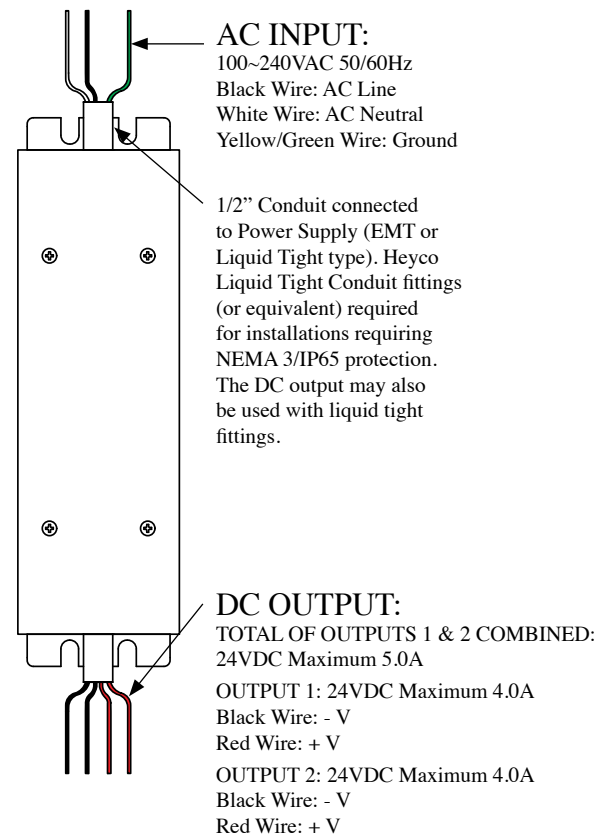
**(Note: The complete metal case is referenced to AC ground upon proper installation of AC input wires.)**

### ⚠ PRECAUTIONS

1. Read all instructions completely before beginning installation.
2. Turn off electricity before beginning installation.
3. All wiring is to be performed by a qualified electrician.
4. Installation must comply with the National Electrical Code, and all applicable codes.
5. Turn main supply to LED Driver on only after all connections are made and tested.
6. Use only LED Drivers provided by Tokistar with the system.

### WARNING!

Do Not Connect Input Wires to Dimmer.  
This Will Damage the Driver.



## TOKISTAR® LIGHTING

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## Output Connections

Connect the LED Driver's DC wires to the LED lighting fixture. The wire connections are made within the LED Driver's DC wiring compartment, using wire nuts or other appropriate electrical connection. The **Black wires** from the unit should connect to the lighting fixture's DC negative '-' input. The **Red wires** from the unit should connect to the lighting fixture's DC positive '+' input. The LED lighting fixture DC input wires can be secured to the LED Driver by attaching conduit pipe with conduit fittings or cord and cord fittings to the LED Driver's 1/2" knockout. **(Note: The output wires for each channel should not be interconnected.)**

## Load Distribution

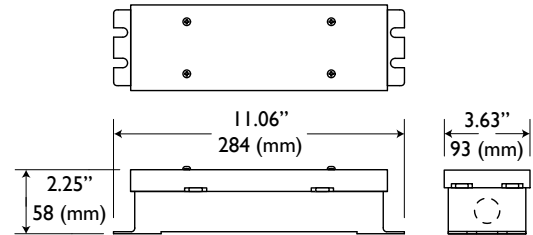
The total rating of the unit (both outputs combined) is 24VDC/5 Amps. The LDR24-120 has two independent 24VDC/4 Amp outputs. Either output can be loaded to this maximum amount. Therefore, if one output is loaded to the maximum rating of 4 amps, the other output can only be loaded with 1 additional Amp. It is also possible to load each of the outputs with any combination (such as 2.5 Amps x 2), as long as the combined load of both outputs does not exceed 5 Amps.

## Check For Proper Operation

Once all wiring is completed, turn on the AC supply to check for proper LED lighting system operation. Once proper operation is confirmed, turn off the AC supply and then re-install the top cover of the LED Driver using the 4 screws and Philips screwdriver. Ensure the plastic washers are installed on each screw before re-installation. It is also important to ensure all wiring is maintained within each wiring compartment to prevent wires from being pinched between the cover's gasket and the unit's case.

**(Note: In outdoor installations, or any installation in wet locations, tighten the screws using a torque controlled screwdriver with a torque setting of 4.0 to 6.0 inch pounds.)**

Tokistar Systems are  
ETL Listed when operated  
from our LED Driver.



## Specifications

Input Range: 100~240 VAC  
Frequency Range: 50/60 Hz  
Output: 24 VDC (Adjustable +5% / -30%)  
Max. Current Total: 5.0A (Both Outputs Combined)  
Max. Current Per Output: 4.0A  
Max. Power: 120W (Both Outputs Combined)  
Max. Power Per Output: 96W  
Protection: Overload, Overcurrent, Short Circuit  
Operating Temperature: -30°C to +60°C

## Mechanical Specifications

Dimensions: 3.63" x 11.06" x 2.25"  
Weight: 4 lbs  
Enclosure Rating: Nema 3/IP65  
Mounting: Flange Mount  
Connection: Knockouts for 1/2" Conduit

## Compliance/Safety

Standards: UL Recognized Class 2/EN60950

## LED Capacity

2 Watt LED Modules: 48 pieces Per Output  
(Maximum 60 pieces Total)

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