

JumpLights



ETS MAX Installation Guide

 Refer to the Assembly Guide document if your lights aren't assembled

Call 301-244-8419 for assistance

Designed, Assembled, and Tested in the USA 



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Critical Safety Information

Installer

This product must be installed in accordance with the applicable local electrical codes by a qualified electrician.

Electrical Connections

- Turn off the power at breaker before starting installation.
- Do not plug or unplug AC power cables with the power applied.
- Ensure that the AC line voltage is compatible with the AC input voltage listed on the LED driver.
- Use AC connection cables from the junction box to the LED driver that have a maximum voltage rating higher than the line voltage for proper operation.
- Use minimum 90°C supply conductors.
- All connections should be properly made to the ETS MAX LED driver before applying AC power.
- Install cords in the following manner:
 - Not concealed or extended through a wall, floor, ceiling, or other parts of the building structure.
 - Not located above a suspended ceiling or drop ceiling.
 - Not permanently affixed to the building structure.
 - Routed so that they are not subject to strain and are protected from physical damage.
 - Are visible over their entire length.
 - Used within their rated ampacity as determined for the maximum temperature of the installed environment as specified in the instructions.

Photobiological Risk

Following is the Photobiological Risk information from UL.

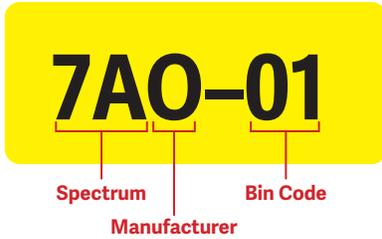
Risk Group 1
No Labeling Required
Product Tested Against IEC62471



Important Installation Notes

LED Bar Types and Bin Codes

ETS MAX bars are available in differing light spectrums such as 7A, 5B, 3B, and 2A. In addition, each ETS MAX bar has a specific bin code. The spectrum and bin codes are labeled using a yellow sticker on the back of the ETS MAX bar.



NOTE: For ETS MAX bars connected to the same LED driver, the Spectrum and Bin code must match as shown below in Table 1 ETS MAX Spectrum and Bin code matching. Mixing ETS MAX bars with different spectrum types or bin codes on a single LED driver may shorten the life of the ETS MAX bars or result in failure.

Bar Type and Bin Code Example Table

Bar 1	Bar 2	Acceptable?
7AO-02	7AO-02	✓
7AO-02	5BO-02	✗
7AO-02	7AO-01	✗

Table 1 ETS MAX Spectrum and Bin code matching

Clearance

The ETS MAX should have minimum clearances of:

- At least 2" clearance from the ends to other light bars or LED drivers.
- At least 4" clearance on the sides and at least 10" from any other (non-ETS MAX) lighting fixture or heat generating device.
- Suspended from a light rail with at least 4" above the bar.

Ambient Temperature

- Maximum ambient temperature is 113° F or 45° C when the ETS MAX is in operation.

Mounting

- ETS MAX components must be clear of any moving objects such as hanging baskets.



Warning: Handle LED Boards with Care

Do not bump, scratch, or apply pressure to the LED boards during handling, assembly, or installation. The LEDs are sensitive components and can be permanently damaged by impact or improper contact. Always support the fixture from the frame and avoid touching the LED surface directly.



— Components

PRODUCT PART	IMAGE
ETS MAX ARRAYS <i>(2 Bar or 3 Bar)</i>	 OR
LED DRIVER 1. PowerLand 1200HTH56-CV-MP 2. PowerLand 800HTH56-CV-MP 3. uPowerTek TLD400 C990-DNU # FFFN00	 OR
PLASTIC MOUNTING HOOKS <i>(Optional depending on your lighting setup)</i>	
WIRE MOUNTING HOOKS <i>(Optional depending on your lighting setup)</i>	 OR OR
METAL TIES <i>(Used only on perpendicular mounting hooks)</i>	
10-16X3/8 PAN - PHILLIPS TYPE B - SELF TAPPING SCREWS - 18-8 STAINLESS	
UNIVERSAL DRIVER HOOKS	

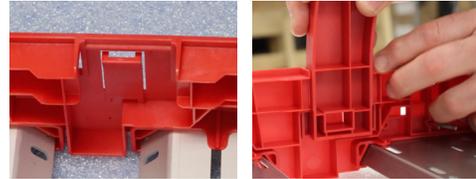
SECTION 1: Assembling Mounting Hooks and Hanging Light Fixtures

There are several mounting options depending on your setup. Use the one that matches your installation method. Refer to assembly instructions if your light arrays are not already assembled.

Installing & Hanging Plastic Hooks

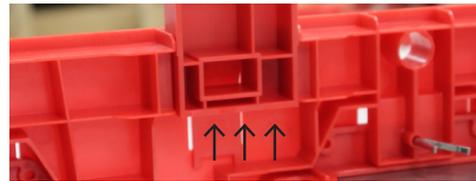
Step 1:

Align each plastic hook with the corresponding groove on the array end cap.



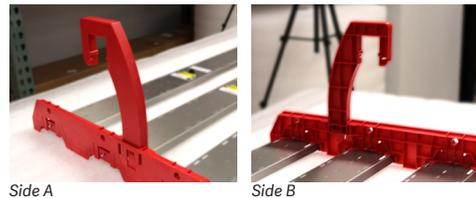
Step 2:

Press the hook in and then pull upward until it locks into place. A “click” noise will indicate that it is secured.



Step 3:

Repeat Step 2 on the other side of the fixture, ensuring the hooks are facing the opposite way than the hooks from Step 2.



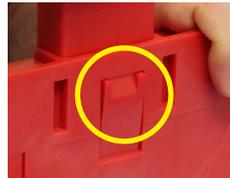
To Remove Plastic Hooks: Press the tab through the hole at the bottom of the hook to disengage the tab, then slide the hook down to pull it out.



This figure shows a fully engaged plastic hook.



Press on the array end cap tab located below the assembled hook.



The tab now is disengaged and you can slide the hook down.



Pull out the hook.

The plastic hooks must be installed on the array end cap before the light is hung. We recommend lights to be hung with two people.

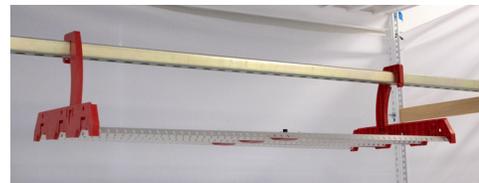
Step 4:

Position the top of the plastic hooks over the unistrut and press down until the hook is fully resting on the unistrut.



Step 5:

Ensure both hooks are secured to the unistrut to finalize hanging your light.



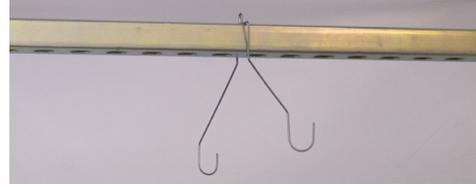
Cables not pictured.

Installing Wire Hooks for Parallel Configuration

We recommend lights to be hung with two people.

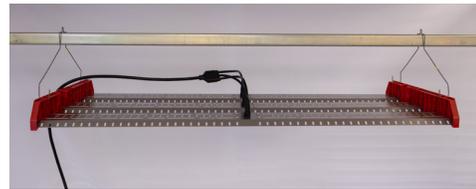
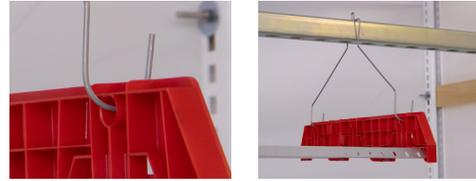
Step 1:

Place the hooks on the unistrut.



Step 2:

Insert the wire hooks into the outermost mounting holes of the array end caps on both sides, ensuring the wire hooks are parallel to the array end caps.



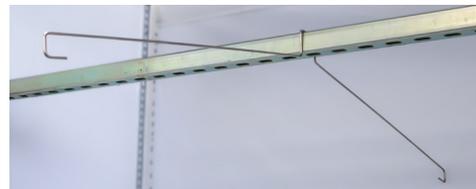
Option 3: Installing Wire Hooks for Perpendicular Configuration

We recommend lights to be hung with two people.

Tools Needed: Stainless steel cable tie gun. Stainless steel cable cutters.

Step 1:

Place the hooks on the unistrut.



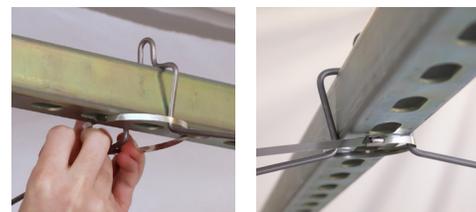
Step 2:

Insert the wire hooks into the outermost mounting holes of each array end cap, ensuring they are seated parallel to the ETS board, with the hooks facing inward.



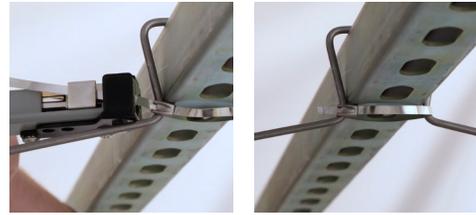
Step 3:

To secure your light to the unistrut, wrap the metal ties around the neck of the hook, as close to the unistrut as possible.



Step 4:

To finish installing the hangers, use a stainless steel cable tie tightener to secure the metal tie; it will automatically trim the excess when fully tightened.



To Remove Metal Ties: Use stainless steel cable cutters to detach the metal tie from the hook.



SECTION 2: Connecting the DC Cables to the ETS MAX

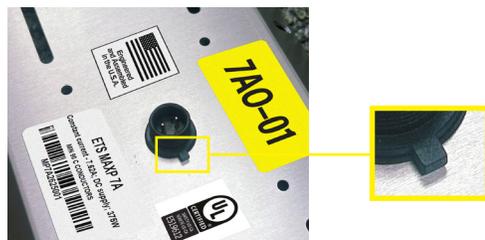
Note: If your DC cables are already connected to the ETS MAX, skip this step.

IMPORTANT:

Proper cable connections are critical. Failure to follow these steps may result in a blown fuse and/or damage to the light that will require repair.

Step 1:

Locate the three panel-mount connectors on the back of the ETS MAX board. The panel-mount connectors should have 2 pins inside of them. Ensure that the alignment tabs on all connectors are facing the same direction. These tabs indicate the correct orientation and help guide proper installation.



NOTE:

Each female DC cable connector has a slot inside the connector.

This slot must align precisely with the detent (tab) located inside the panel-mount connector to ensure proper connection.



Female DC cable connector



Panel-mount connector

Step 2:

Begin with the center DC cable connector. Carefully align the detent in the DC cable connector with the slot on the panel-mount connector. When aligned correctly with some pressure, the connector will slide down and seat firmly onto the panel-mount connector. Once seated, twist until it is fully secured.

**Step 3:**

Follow the same alignment and seating process for the left and right connectors. Make sure each one is properly aligned (detent-to-slot), fully seated, and tightly screwed in by hand.



SECTION 3: Attaching the Universal Driver Hooks onto the Driver

Tools Needed: Phillips screwdriver and the provided screws.

Step 1:

Identify which two holes on the LED driver align with the holes on the universal hooks.

Step 2:

Use the provided screws to attach the universal hook on one side of the LED driver. *Note: It may be difficult to drive the screws down into the mount, this is intentional as the screws are thread forming and the mounts need to be firmly secured on the driver.*

Step 3:

Repeat on the opposite side. Hole placement may differ. Ensure both universal LED driver hooks face the same direction and sit evenly.



SECTION 4: Installing the Driver

Note: Ensure the driver is securely mounted and both light array and driver are hung before proceeding with electrical connections.

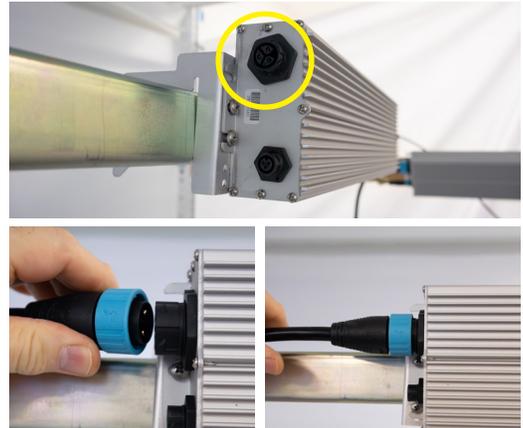
Step 1:

Line up the universal driver hook on the back of the driver to be seated over the unistrut. Press down firmly and ensure that it is stable.



Step 2:

Locate the DC output connector on the driver and align it with the central T-connector on the DC power cable. Press the connector into the output port until the blue locking ring clicks into place. Gently tug on the cable to ensure it is fully seated and lock.



SECTION 5: Connecting AC Power

Warning: The connection of the AC power cable to the junction box should only be performed by a qualified electrician. Be sure to turn off AC power at the breaker before starting electrical installation. Do not plug or unplug AC power cables with the power applied.

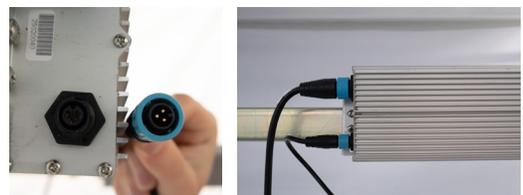
Step 1:

Start with the AC Power turned off. If the junction box has a power receptacle, plug the AC power cable into it. If the junction box does not have a power receptacle, the AC power cable should be wired into the junction box by a licensed electrician. Plug the other end of the AC cable into the Input connector on the LED Driver, making sure it's properly aligned. Press until the blue locking ring clicks, then gently pull to confirm it's secure.



Step 2 (if applicable):

If using dimming cables, connect them to the dimming connector on the LED Driver. Align the keyed connector with the light bar, press until the blue locking ring clicks, and gently pull to ensure it's locked in place.





Installed 3 Bar Array



Installed 2 Bar Array



Congrats! Your ETS MAX is installed!
For additional assistance, call 301-244-8419