POE-DCO-65

X-PoE® powered USB charging brick (2x USB-C, 1x USB-A)

Installation Guide



INTRODUCTION

About This Guide

This guide provides complete instructions for installing and setting up the POE-DCO-65 USB charging outlet. It includes details on wall-box mounting, input wiring, USB output connections, status indication, and basic troubleshooting.

Cautions and Warnings

When installing hardware, it is important to follow safety precautions to avoid potential injuries or damage to the equipment. Failure to follow safety guidelines can result in electric shock, fire, or other hazards.

Definitions

NOTE

A note is typically used to provide additional information or clarification that is relevant to the installation process. It may include recommendations, tips, or other useful information that can help ensure a successful installation.

CAUTION

A caution statement indicates a potential hazard that could result in minor or moderate injury, or cause damage to the product if appropriate precautions are not taken. They are used to alert the reader to a potential risk and provide instructions on how to avoid it.

DANGER

A danger statement indicates a potential hazard that could result in serious injury or death if appropriate precautions are not taken. They are used to alert the reader to a potential risk that is critical and requires immediate attention to prevent harm. It may provide instructions on how to avoid the hazard or recommend seeking professional assistance.

Safety Precautions

CAUTION

- Follow all applicable local and national electrical codes and regulations. While a licensed electrician is not required, the installer should be familiar with Class 2 low-voltage wiring practices.
- Use only with an X-PoE® source or an IEEE 802.3bt compliant power source. Do not connect line-voltage (AC) wiring to this device.
- Do not connect external power supplies to the USB output ports.
- Ensure the RJ45 input is de-energized before connecting or disconnecting the device.
- Ensure all wiring connections are secure and properly terminated.
- This equipment is not suitable for use in locations where children are likely to be present.

NOTE

- Do not exceed the rated output power of the USB ports.
- For indoor use only.
- Do not pack insulation tightly against the device; allow space for heat dissipation.

PRODUCT OVERVIEW

The POE-DCO-65 is a PoE-powered USB charging outlet that delivers up to 65W of clean, low-voltage power to USB devices right where people work, without needing an AC outlet. It provides enough power to charge laptops, making it unique among PoE-powered chargers. Its RJ45 input is IEEE 802.3bt compliant and compatible with bt power sourcing topologies as well as X-PoE®, and its Decora form factor delivers a clean, architecturally familiar finish with front-panel status indication.

Key features:

- (1) RJ45 input for X-PoE® / IEEE 802.3bt power and (3) USB outputs (2x USB-C, 1x USB-A)
- Supports USB-C PD profiles at 5V, 9V, 12V, 15V, and up to 20V / 3.25A (65W)
- Total output shared across all outputs with dynamic load balancing
- Fits a standard Decora faceplate (not provided)
- ETL Listed (cETLus) to UL 62368-1; FCC and CE

ORDERING INFORMATION

Charging Outlets

Part Number	Description
POE-DCO-65	X-PoE®/PoE powered USB charging outlet (2x USB-C, 1x USB-A)

INSTALLATION

Parts List

Before getting started with the installation process, it's important to make sure all the necessary components are included. Here's what should be found inside the box:

- (1) POE-DCO-65 USB charging outlet

> **NOTE**
> A Decora faceplate, mounting hardware, and USB cables are not included. Use a faceplate and hardware appropriate for the wall box and installation location.

Wall-Box Requirements

Adequate clearance is required so the rear RJ45 and all connections can be made without cable strain. Observe the following guidance when selecting a wall box:

- Low-voltage mounting rings are recommended for optimal installation. The non-enclosed design helps avoid interference with the rear connections and supports secure residential and commercial mounting.
- Plastic electrical boxes: ensure box depth is at least 3 in and that there is adequate clearance for cable management.
- Metal junction boxes: not recommended due to space limitations. If required, use a minimum 3 in depth and validate mud/extension ring fit before final installation.
- Do not pack insulation tightly against the device; allow space for heat dissipation.

Mounting and Input Wiring

> **NOTE**
> The hardware and devices shown in these instructions are meant for guidance purposes and may not accurately represent the specific device or environment you're installing into.

Perform the following steps to mount the outlet and connect the X-PoE® input:

1. Review all cautions and warnings to ensure safe installation practices are followed.

2. Confirm the wall box meets the depth and clearance requirements described above.

3. Connect an Ethernet cable from an X-PoE® source or an IEEE 802.3bt compliant power source to the RJ45 input on the rear of the unit.

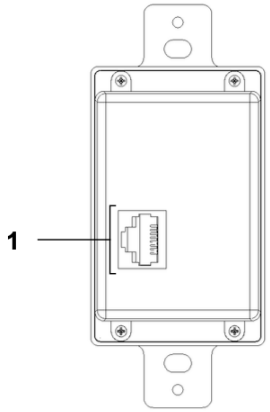


Fig. 1 — RJ45 Input Connection

4. Carefully fold the cable into the wall box and secure the device to the mounting ring or box using the appropriate hardware.

5. Install a standard Decora faceplate (not provided) over the device.

USB Outputs

Perform the following steps to connect a device to a USB output:

1. Connect a USB-C or USB-A cable from the desired output port to the device to be charged.

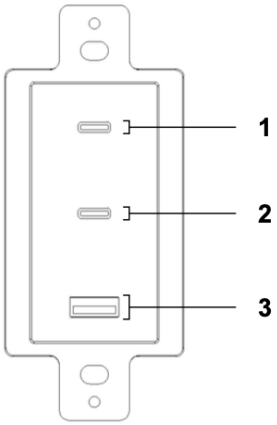


Fig. 2 — USB Output Connections

2. The connected device will negotiate an appropriate USB-C PD profile, up to a maximum of 65W (20V @ 3.25A).

NOTE

- Output power is shared across all outputs with dynamic load balancing based on connected load.
- When both USB-C ports are active, both ports are derated to a maximum of 15V output.
- When the USB-A port is in use, USB-C port 2 operates at 5V as well.

INITIAL SETUP

The POE-DCO-65 does not require configuration. When powered from an X-PoE® source, configure the associated X-PoE® port using the Channel Configuration guide. When powered from an IEEE 802.3bt source, no additional configuration is required.

RELATED INFORMATION

Basic Troubleshooting

If the device does not power on, confirm the upstream port is enabled and supplying X-PoE® or IEEE 802.3bt power, and verify the front-panel status indicator. When powered from an X-PoE® switch, basic troubleshooting can also be performed by observing the port status LEDs on the switch. Refer to the Port Status LED Table in the X-PoE® switch installation guide for detailed diagnostic information.

Technical Support

If you experience any issues during installation or operation of this product, contact our technical-support team via email at support@luum.io. Please provide a detailed description of the issue, including any error messages or other relevant information.

Warranty

All Luum.io lighting products and controls come with a 5-year parts warranty. We warrant that our products will be free from defects in material and workmanship for a 5-year period from the date of purchase. Defective products under warranty will be replaced with an equal or higher-quality product.

If you experience any issues during the warranty period, we will repair or replace the product at no charge. To initiate a warranty claim, contact our customer-service team at support@luum.io. For additional support options, visit luum.io.

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Document Feedback

While we have taken great care to ensure the accuracy and completeness of this document, we welcome your feedback and suggestions. If you notice any errors or omissions, or feel a topic could benefit from further explanation, please email your feedback to support@luum.io.

Revision History

Date	Revision	Notes
6/15/2026	A	Initial POE-DCO-65 install guide release

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