Light is OSRAM

Installation Instruction

TW-DL-12V/110mA-Power Pack

P/N: 58290 — 110mA output max. — 12VDC nominal

For use with OSRAM Tunable White Wallstation (58289)

Important Safeguards

When using electrical equipment, basic safety precautions should always be followed including the following:

- To avoid fire, shock, or death, turn off power at circuit breaker or fuse and test that power is off before wiring, servicing fixture or changing lamps.
- To be installed and/or used in accordance with appropriate electrical codes and regulations.
- If you are not sure about any part of these instructions, consult an electrician.
- This device can be wired either as a Class 1 or Class 2 wiring device. Be sure to install in the same manner as the other devices on the DALI loop. When in doubt, install as a Class 1 wiring device. Consult local building codes and regulations for proper low-voltage installation.

Save These Instructions

Features

- A maximum of 2 Power Packs can be added in parallel as long as the total current supply on a single loop is below 250mA
- Control wiring can be Class 1 or Class 2 installed
- Polarity-independent control wiring
- Flexible 2-wire DALI® loop control wiring – daisy chain, point to point, star or mix method

Specifications

- Input Voltage: 120/277V_{AC} ± 10%
- DALI Output Voltage: 12V_{DC} nominal
- DALI Output Current: 110mA
- Approved for Class I or II control wiring

Description

The OSRAM TW-DL-12V/110mA-Power Pack provides power to a DALI network. A single power pack can provide 110mA of power, which would be used by a combination of DALI compatible controllers and ballasts. Please refer to LMS168 for details on how many wallstations/LED Drivers can be powered with this power pack.

If more current is required, one other OSRAM power pack can be added in parallel to a single DALI network, which would bring the total current supply to 220mA. Please note that the total current supply on a DALI loop cannot exceed 250mA. The power pack is mounted directly to a junction box (refer to Figure 1). The unit must be installed in a properly grounded metal 4" (10.16 cm) outlet box, a minimum of 2 1/8" (5.39 cm) deep. All Class 2 (low-voltage) wiring must be contained within the Class 2 compartment (the area enclosed by the isolation barrier –refer to Figure 2). All Class 1 (high-voltage) wiring must be contained within the Class 1 compartment (refer to Figure 2). Install or rearrange circuit wiring so all high-voltage circuit and load wires enter the box from one side, and all low-voltage wires enter from the other.

Figure 1

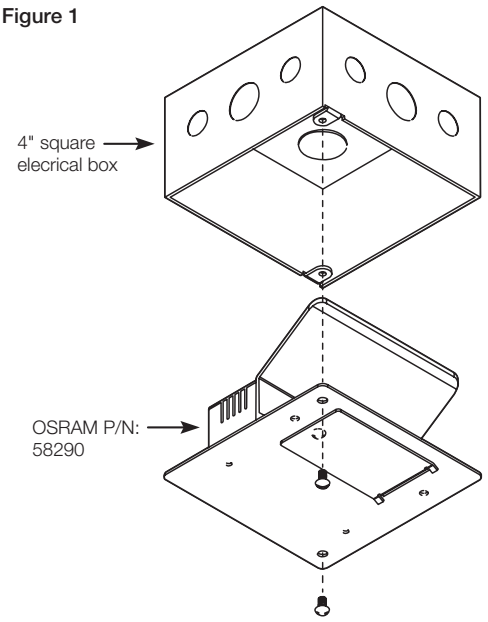
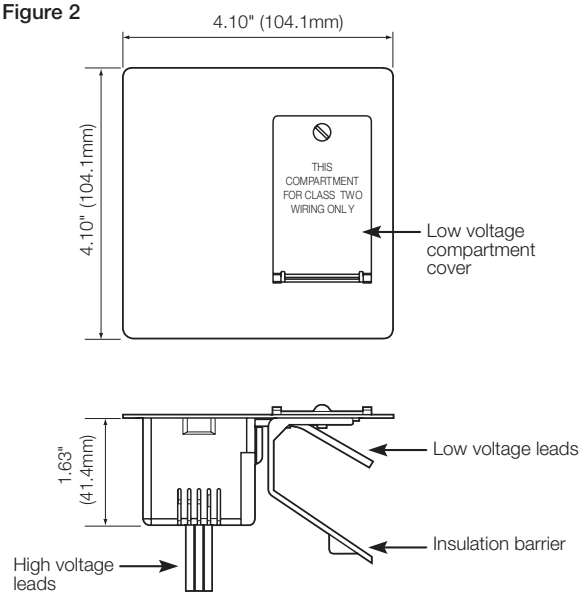


Figure 2



Limited 5 Year Warranty and Exclusions

OSRAM warrants each (when installed in a compatible and suitable LED system) (the "Product") to be free from defects in materials and workmanship, and to operate from the date of installation (or date of manufacture if installation date is not known or available or verifiable) for the time periods and subject to the Terms and Conditions specified in the warranty document. If Tunable White DALI power pack fails to operate for the specified warranty period, OSRAM will provide a free same or similar replacement component in accordance with the Terms and Conditions. Labor not included.

Installation

1. **Warning:** To Avoid fire, shock or death, turn off power at circuit breaker or fuse and test that power is off before wiring!
2. Remove junction box cover plate and save screws. The power pack will take the place of the junction box cover **(refer to Figure 1)**.
3. Prepare high and low-voltage wires by stripping 3/4" (1.9 cm) of insulation to expose bare copper at the end of each wire.
4. **Line Voltage Connections:** Identify the voltage of your lighting circuit before attempting to install the power pack, either 120 or 277VAC. In accordance with local wiring codes, connect lead wires of power pack per appropriate Wiring Diagram as follows: Line (Black) lead to the Hot (Black) circuit conductor. Connect the power pack Neutral (White) lead to the Neutral (White) circuit conductor. Twist strands of each lead tightly and, with circuit conductors, push firmly into appropriate wire connector. Screw connectors on clockwise making sure that no bare conductor shows below the wire connectors. Secure each connector with electrical tape.

The power pack Line voltage wires exit through the back of the device and are designated as follows:

Black – 120VAC Line Orange – 277VAC Line White – 120 or 277VAC Neutral

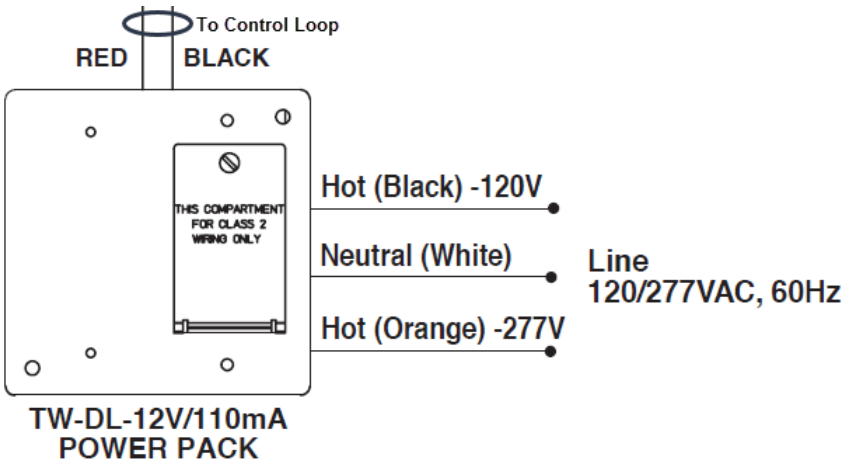
Caution: DO NOT connect both 120 and 277VAC wiring to the power pack at the same time, and DO NOT connect both the Black and Orange high voltage wires to the same circuit.

5. Ensure that TW-DL-12V/110mA-Power Pack is wired properly before mounting it back to the junction box. Carefully position all high-voltage wires in the junction box and assure that all low-voltage wires are on the Class 2 side of the isolation barrier. Mount the power pack to the junction box using the cover plate screws.
6. **Low-Voltage Connections:** Remove the cover plate for the low-voltage compartment. Connect the low-voltage leads of power pack per WIRING DIAGRAM as follows: Red (DALI) and Black (DALI) leads to the PURPLE (DALI) wires on the DALI loop. Twist strands of each lead tightly and push firmly into appropriate wire con-nector. Screw connectors on clockwise making sure that no bare conductor shows below the wire connectors. Secure each connector with electrical tape.

The power pack Low-voltage leads exit through the side of the device, inside the isolation barrier and have polarity designations as follows:

Red – DALI wire (Positive) Black – DALI wire (Negative)

7. Carefully position the low-voltage wires in the low-voltage compartment and replace the cover.
8. Restore power at the fuse or circuit breaker. Installation is complete.



NOTES:
1. DALI loop wires are not polarity sensitive

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