VOLTACON T5-T6-X

VOLTACON LED Tube T5/T6 User Manual

Model: T5-T6-X | Brand: VOLTACON

Product Overview

The Ledison LED tubes represent a significant advancement in lighting technology, offering superior performance, reliability, and energy efficiency compared to traditional fluorescent tubes. Designed as a direct replacement for T5 fluorescent tubes, these LED tubes feature standard T5 pins and 180-degree rotating end caps, ensuring compatibility with existing fixtures. They eliminate the disadvantages associated with older fluorescent technology, providing a brighter and more sustainable lighting solution.
The new LED T6 tubes maintain the exact length (pin to pin) of fluorescent lights but are slightly wider to accommodate an internal power supply. This design allows the tube to be connected directly to the mains (100-230VAC) from a single side, simplifying installation. These tubes are compatible with most ceiling lights available in the market.



Image: VOLTACON LED Tube T5/T6. This image shows the overall design of the LED tube, highlighting its tubular shape and standard end caps.

Key Features

- Internal power supply for direct connection to mains voltage, offering a safer solution with isolated power supply.
- Requires basic rewiring of the fitting; power is connected straight to one side of the strip light. The internal driver protects and regulates power to the LED chips.
- Matches all T5 fluorescent ceiling lights and is up to 20% brighter than CFL lights, providing directional light without reflection or loss.
- Life expectancy of 50,000 hours, with luminosity maintained up to 80% after 50,000 hours, ensuring longer brightness.
- Supported by Ledison with a 5-year limited warranty from our UK-based company.



Image: Close-up of the VOLTACON LED Tube end cap. This view highlights the standard T5 pins and the rotating mechanism for easy installation and adjustment.

Installation Guide

Installation of the VOLTACON LED Tube requires a simple modification to existing fluorescent light fixtures. This process involves bypassing the electric ballast and connecting the LED tube directly to the mains power. It is

recommended that installation be performed by a qualified electrician.

Wiring Instructions:

1. **Step 1: Original Fluorescent Light Wiring**
   Understand the existing wiring of your T5/T6 fluorescent light fixture, which typically includes an electric ballast connected to the mains (AC100-240V) and the lamp holder.
2. **Step 2: Ballast Removal and Rewiring**
   - **Remove the electric ballast:** Disconnect and remove the existing electric ballast from the circuit.
   - **Delete unnecessary wires:** Remove any wires that were connected to the ballast and are no longer needed for the direct connection.
   - **Connect L/N wires:** Connect the Live (L) and Neutral (N) wires directly from the AC100-240V mains to one side of the G5 lamp holder. Ensure proper polarity (Live to one pin, Neutral to the other pin on the same end of the lamp holder).
3. **Step 3: Install the LED Tube Light**
   Once the rewiring is complete, simply install the LED tube light into the modified G5 lamp holder. The internal power supply of the LED tube will manage the power conversion.

Important Safety Note: Always ensure the power supply is disconnected at the main circuit breaker before attempting any electrical installation or modification.



Image: Wiring instructions for VOLTACON LED Tube. This diagram illustrates the steps to bypass the existing ballast and directly connect the LED tube to the mains power supply.

Operation

Once correctly installed and wired, the VOLTACON LED Tube operates like any standard light fixture. Simply activate the wall switch connected to the fixture to turn the light on or off. The tube provides instant full brightness without flickering or warm-up time, characteristic of LED technology.
The 180-degree rotating end caps allow for precise adjustment of the light direction, ensuring optimal illumination for your workspace or environment.

Maintenance

The VOLTACON LED Tube is designed for minimal maintenance due to its long lifespan and durable construction. Follow these guidelines to ensure optimal performance:

- **Cleaning:** Periodically wipe the surface of the tube with a soft, dry, or slightly damp cloth to remove dust and dirt. Do not use abrasive cleaners or solvents, as these can damage the tube's finish. Ensure the power is off before cleaning.
- **Inspection:** Regularly inspect the tube and its connections for any signs of damage or loose wiring. If any issues are found, disconnect power immediately and consult a qualified electrician.
- **Disposal:** When the product reaches the end of its life, dispose of it according to local electronic waste recycling regulations. LED products should not be discarded with general household waste.

Troubleshooting

If you encounter issues with your VOLTACON LED Tube, consider the following common troubleshooting steps:

- **Light Does Not Turn On:**
  - Check if the power switch is on.
  - Verify that the tube is correctly seated in the lamp holders.
  - Ensure the fixture has been correctly rewired to bypass the ballast and is receiving direct mains power. Consult the "Installation Guide" section.
  - Check the circuit breaker for the lighting circuit.
- **Flickering Light:**
  - Flickering is rare with LED tubes. If it occurs, it may indicate an unstable power supply or an issue with the wiring. Re-check all connections.
  - Ensure the ballast has been completely removed and bypassed. This LED tube is designed for direct mains connection.
- **Dim Light:**
  - Confirm the tube is receiving the correct voltage (100-240VAC).
  - Ensure the tube is not covered or obstructed, which could reduce light output.

If problems persist after following these steps, please contact VOLTACON customer support for assistance.

Technical Specifications

Specification	Detail
Brand	VOLTACON
Model Number	T5-T6-X
Item Weight	2 kg
Colour	Natural White
Shape	Tubular (T)
Included Components	Built-in LED driver
Voltage	100-240VAC (229.97 Volts AC)
Specific Uses	Replacement for T5 fluorescent tubes in ceiling lights

Special Features	Internal power supply and direct T5 fluorescent tube replacement
Light Direction	Downlight
Certification	A++ energy efficiency
Type of Bulb	LED (CFL, Fluorescent, Incandescent replacement)
Luminous Flux	721 lumen (for 60cm model)
Wattage	6W (30cm), 12W (90cm), 20W (120cm), 22W (150cm)
Colour Temperature	4000 Kelvin
Colour Rendering Index (CRI)	85
Average Life	50,000 Hours
Beam Angle	120 Degrees
First Available	27 March 2023

Dimensions

The VOLTACON T5/T6 LED tubes are available in various lengths to match common fluorescent tube sizes. The new T6 tubes have the same pin-to-pin length as their fluorescent counterparts but are slightly wider to accommodate the internal power supply.

Standard Lengths (Pin to Pin):

- **30cm (1ft):** 302mm
- **60cm (2ft):** 563mm
- **90cm (3ft):** 863mm
- **120cm (4ft):** 1163mm
- **150cm (5ft):** 1463mm

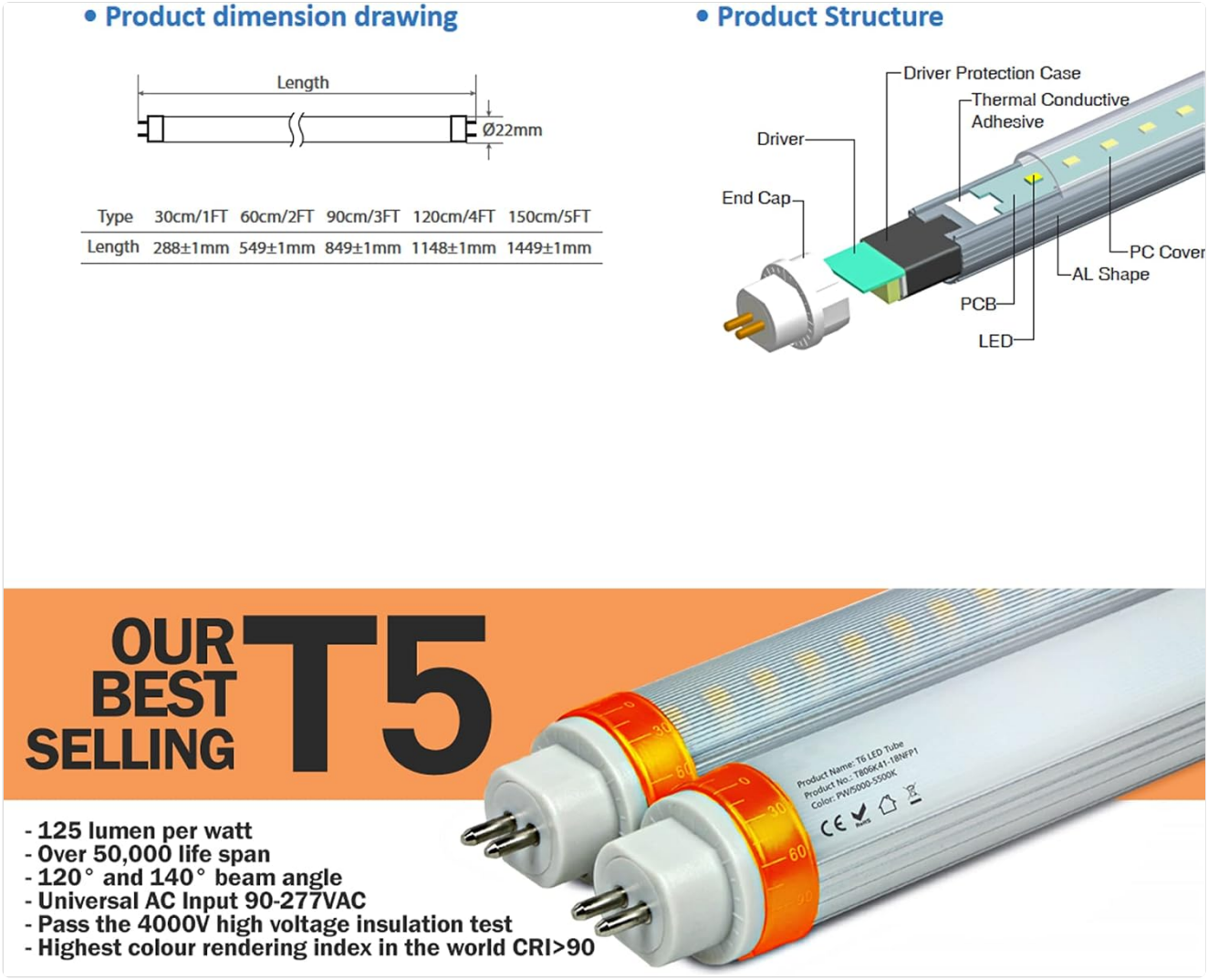


Image: Detailed dimensions table and diagram for T5/T6 LED Tubes. This provides precise measurements (L1 and L2) for various lengths, aiding in compatibility checks.

Dimensions T5/T6 LED Tube

	2feet(0.6m)	3feet(0.9m)	4feet(1.2m)	5feet(1.5m)	8feet(2.4m)
A	562mm	862mm	1162mm	1462mm	2362mm
B	548mm	848mm	1148mm	1448mm	2348mm

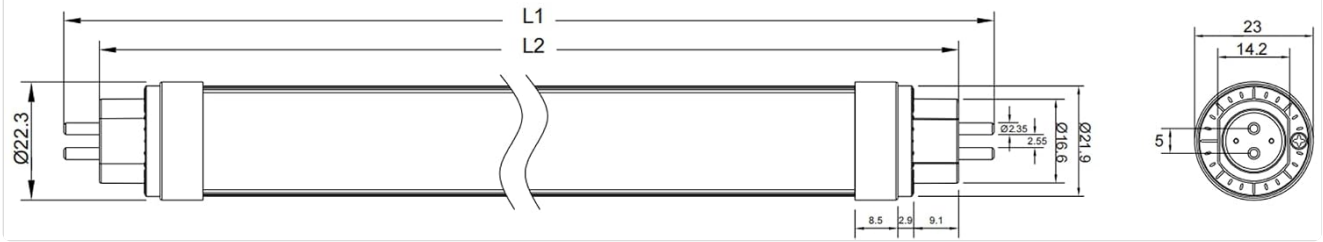


Image: Product dimension drawing and internal structure diagram. This illustrates the overall length and diameter, along with a cutaway view showing components like the driver, LED chips, and heat sink.

Warranty and Support

VOLTACON stands behind the quality of its LED tubes. This product comes with a **5-year limited warranty** offered

by VOLTACON UK. This warranty covers defects in materials and workmanship under normal use and service conditions.

For warranty claims, technical support, or any inquiries regarding your VOLTACON LED Tube, please contact VOLTACON UK directly. Ensure you have your purchase details and product model number (T5-T6-X) ready when contacting support.

Manufacturer: VOLTACON

Seller: VOLTACON UK

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Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

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