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## Deko-Light 180515

# Kapego Ultra 70 Dimmable LED Power Supply

Model: 180515 | Brand: Deko-Light

## 1. INTRODUCTION

Thank you for choosing the Kapego Ultra 70 Dimmable LED Power Supply. This manual provides essential information for the safe and efficient installation, operation, and maintenance of your device. Please read this manual thoroughly before installation and keep it for future reference.

### 1.1 Safety Warnings

- **Electrical Hazard:** Installation and maintenance must be performed by a qualified electrician in accordance with local electrical codes and regulations.
- Disconnect power before installation, maintenance, or troubleshooting.
- Do not operate the device if it is damaged.
- Ensure proper ventilation to prevent overheating.
- This device is rated IP20, meaning it is protected against solid objects larger than 12.5mm but has no protection against water. Do not expose to moisture or water.

## 2. PRODUCT OVERVIEW

The Kapego Ultra 70 is a constant voltage electronic transformer designed for dimmable LED lighting applications. It features phase-cut dimming control, allowing for smooth adjustment of light intensity when paired with compatible dimmers.

### 2.1 Key Features

- **Material:** Durable plastic housing.
- **Color:** Black finish.
- **Power Output:** 0-70.00W, suitable for various LED loads.
- **Control:** Phase-cut dimming for compatibility with leading and trailing edge dimmers.
- **Input Voltage:** 220-240V AC, 50-60Hz.
- **Output Voltage:** 12V AC.

### 2.2 Product Image



Figure 1: Kapego Ultra 70 Dimmable LED Power Supply. The image shows the compact black plastic housing of the power supply. Visible labels indicate input (PRI: 220-240V~) and output (SEC: 11.5V~eff 6A 0-70W) specifications, along with connection terminals for wiring. The model name "ULTRA70" and brand "Kapego" are also clearly displayed.

### 3. SETUP AND INSTALLATION

**Important:** All installation work must be carried out by a qualified electrician. Ensure power is disconnected at the main circuit breaker before proceeding.

- 1. Power Disconnection:** Turn off the main power supply to the circuit where the power supply will be installed. Verify that the power is off using a voltage tester.
- 2. Mounting:** Choose a suitable, dry location for mounting the power supply, ensuring adequate ventilation. The device is not waterproof (IP20). Secure the power supply using appropriate fasteners.
- 3. Input Wiring (PRI):** Connect the main AC power supply (220-240V AC, 50-60Hz) to the input terminals marked 'PRI' (L and N). Use appropriate wire gauges (0.75-2.50 mm<sup>2</sup> recommended).
  - Connect the Live (L) wire to the 'L' terminal.
  - Connect the Neutral (N) wire to the 'N' terminal.
- 4. Output Wiring (SEC):** Connect your 12V AC LED lighting fixtures to the output terminals marked 'SEC'.

Ensure the total wattage of the connected LED fixtures does not exceed 70W. Use appropriate wire gauges (0.75-2.50 mm<sup>2</sup> recommended).

5. **Dimmer Connection (Optional):** If using a dimmer, connect it on the primary (input) side of the power supply, following the dimmer manufacturer's instructions. This power supply is designed for phase-cut dimmers.
6. **Final Check:** Double-check all connections for proper polarity and secure fastening. Ensure no bare wires are exposed.
7. **Power Restoration:** Restore power to the circuit.

## 4. OPERATING INSTRUCTIONS

Once properly installed, the Kapego Ultra 70 Dimmable LED Power Supply operates automatically when power is supplied. If a compatible phase-cut dimmer is connected to the input, you can adjust the brightness of the connected LED lights using the dimmer control.

- **Power On/Off:** Use the main light switch or dimmer switch to turn the connected LED lights on or off.
- **Dimming:** Rotate or adjust the dimmer control to increase or decrease the light output. Ensure the dimmer is compatible with phase-cut electronic transformers.

## 5. MAINTENANCE

The Kapego Ultra 70 Dimmable LED Power Supply requires minimal maintenance. Follow these guidelines to ensure longevity and optimal performance:

- **Cleaning:** Ensure power is disconnected before cleaning. Wipe the exterior of the power supply with a soft, dry cloth. Do not use abrasive cleaners, solvents, or liquids.
- **Inspection:** Periodically inspect the wiring and connections for any signs of damage, loose connections, or overheating. Address any issues promptly.
- **Ventilation:** Ensure that the power supply's ventilation openings are not obstructed.

## 6. TROUBLESHOOTING

If you experience issues with your Kapego Ultra 70 Dimmable LED Power Supply, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
No light output	<ul style="list-style-type: none"><li>• No power to the unit.</li><li>• Loose wiring connections.</li><li>• Faulty LED fixture.</li><li>• Overload (total wattage exceeds 70W).</li></ul>	<ul style="list-style-type: none"><li>• Check circuit breaker and wall switch.</li><li>• Verify all input and output connections are secure.</li><li>• Test LED fixture with another power source if possible.</li><li>• Reduce the number of connected LED fixtures.</li></ul>
Flickering or unstable light	<ul style="list-style-type: none"><li>• Incompatible dimmer.</li><li>• Loose connections.</li><li>• Minimum load not met (unlikely for 0-70W).</li></ul>	<ul style="list-style-type: none"><li>• Ensure dimmer is a phase-cut type compatible with electronic transformers.</li><li>• Check all wiring connections.</li></ul>

Problem	Possible Cause	Solution
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Dimming not working	<ul style="list-style-type: none"> <li>• Incompatible dimmer.</li> <li>• Dimmer incorrectly wired.</li> </ul>	<ul style="list-style-type: none"> <li>• Verify dimmer compatibility (phase-cut).</li> <li>• Consult dimmer manual for correct wiring.</li> </ul>
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If the problem persists after attempting these solutions, please contact a qualified electrician or customer support.

## 7. SPECIFICATIONS

Parameter	Value
<b>Model Number</b>	180515
<b>Brand</b>	Deko-Light (Kapego)
<b>Input Voltage</b>	220-240V AC, 50-60Hz
<b>Input Current</b>	0.29A (PRI)
<b>Output Voltage</b>	12V AC (SEC: 11.5V~eff)
<b>Output Current</b>	0-6.0A
<b>Output Power</b>	0-70.00W
<b>Dimming Control</b>	Phase Cut (Leading/Trailing Edge)
<b>Power Factor (<math>\lambda</math>)</b>	$\geq 0.99$
<b>Material</b>	Plastic
<b>Color</b>	Black
<b>IP Rating</b>	IP20 (No water protection)
<b>Operating Temperature (ta)</b>	50°C
<b>Case Temperature (tc)</b>	80°C
<b>Product Dimensions (L x W x H)</b>	115 mm x 45 mm x 28 mm (4.53 x 1.77 x 1.10 inches)
<b>Weight</b>	120 grams
<b>Wire Cross-Section</b>	0.75-2.50 mm <sup>2</sup>

## 8. WARRANTY AND SUPPORT

This Kapego product is covered by a standard manufacturer's warranty against defects in materials and workmanship. The specific terms and duration of the warranty may vary by region and retailer. Please retain your proof of purchase for warranty claims.

## **8.1 Customer Support**

For technical assistance, troubleshooting beyond this manual, or warranty inquiries, please contact your retailer or the manufacturer directly. Refer to the packaging or the manufacturer's website for contact details.

**Manufacturer:** Kapego (Deko-Light)

**Model:** 180515