

## Intermatic PX100

# Intermatic PX100 Pool Light 100-Watt Safety Transformer User Manual

Model: PX100 | Brand: Intermatic

## 1. INTRODUCTION

The Intermatic PX100 Safety Transformer is engineered to provide safe and reliable low-voltage power for pool and spa lighting, submersible fixtures, and outdoor garden lights. This manual provides essential information for the proper installation, operation, and maintenance of your PX100 transformer, ensuring compliance with safety standards and optimal performance.

## 2. IMPORTANT SAFETY INFORMATION

### **WARNING: Risk of Electric Shock or Electrocution.**

Installation must be performed by qualified personnel in accordance with all local, state, and national electrical codes, including NEC Code 680.23 for underwater luminaries. Always disconnect power at the circuit breaker before installation or servicing.

The transformer features a grounded shield between the primary and secondary windings to ensure safe operation. Built-in circuit protection will temporarily disconnect power in case of an overload. Allow approximately 15 minutes for the internal protector to reset after an overload or short circuit. Do not attempt to service any internal parts.

This equipment is not for use with self-contained portable spas or hot tubs. Do not install this equipment within 5 feet (1.5 meters) of the pool/spa wall.

## 3. PRODUCT FEATURES

- Designed to supply 12-14 VAC to pool/spa lights, submersible fixtures, and outdoor garden lights.

- Grounded shield between the primary and secondary windings for enhanced safety.
- Built-in circuit protection with automatic reset to prevent damage from overload or short circuits.
- Durable 3R Beige metal enclosure suitable for outdoor use.
- Features 10 combination 1/2" - 3/4" knockouts for flexible wiring (2 right side, 2 left side, 2 back, 4 bottom).
- Compact dimensions: 7.25" (H) x 5.25" (W) x 4.5" (D).
- Reduces electronic noise and interference in low-voltage lighting applications.
- Constructed with super quiet stainless steel for minimal audible hum.



# 100W POOL LIGHT TRANSFORMER

Supply for Pool/Spa Lights,  
Submersible Fixtures, and  
Landscape Lights



Image: The Intermatic PX100 100W Pool Light Transformer, designed to supply power for pool/spa lights, submersible fixtures, and landscape lights.

# LOW VOLTAGE CONVERTYER

120v to 12v, 13v, 14v transformer



Image: Diagram illustrating the low voltage conversion of the PX100 transformer, showing 120V AC input and 12V/13V/14V AC output.



Image: An internal view of the Intermatic PX100 transformer, highlighting premium construction, super quiet stainless steel, automatic breaker reset, and wiring flexibility.

## 4. SETUP AND INSTALLATION

The Intermatic PX100 transformer is designed for straightforward installation. Always ensure power is disconnected before beginning any work.

### 1. Mounting the Transformer:

Fix the transformer securely to a wall or suitable surface using the included top and bottom mounting brackets. Ensure it is mounted at least 1 foot above ground and with the arrows on the label pointing up.

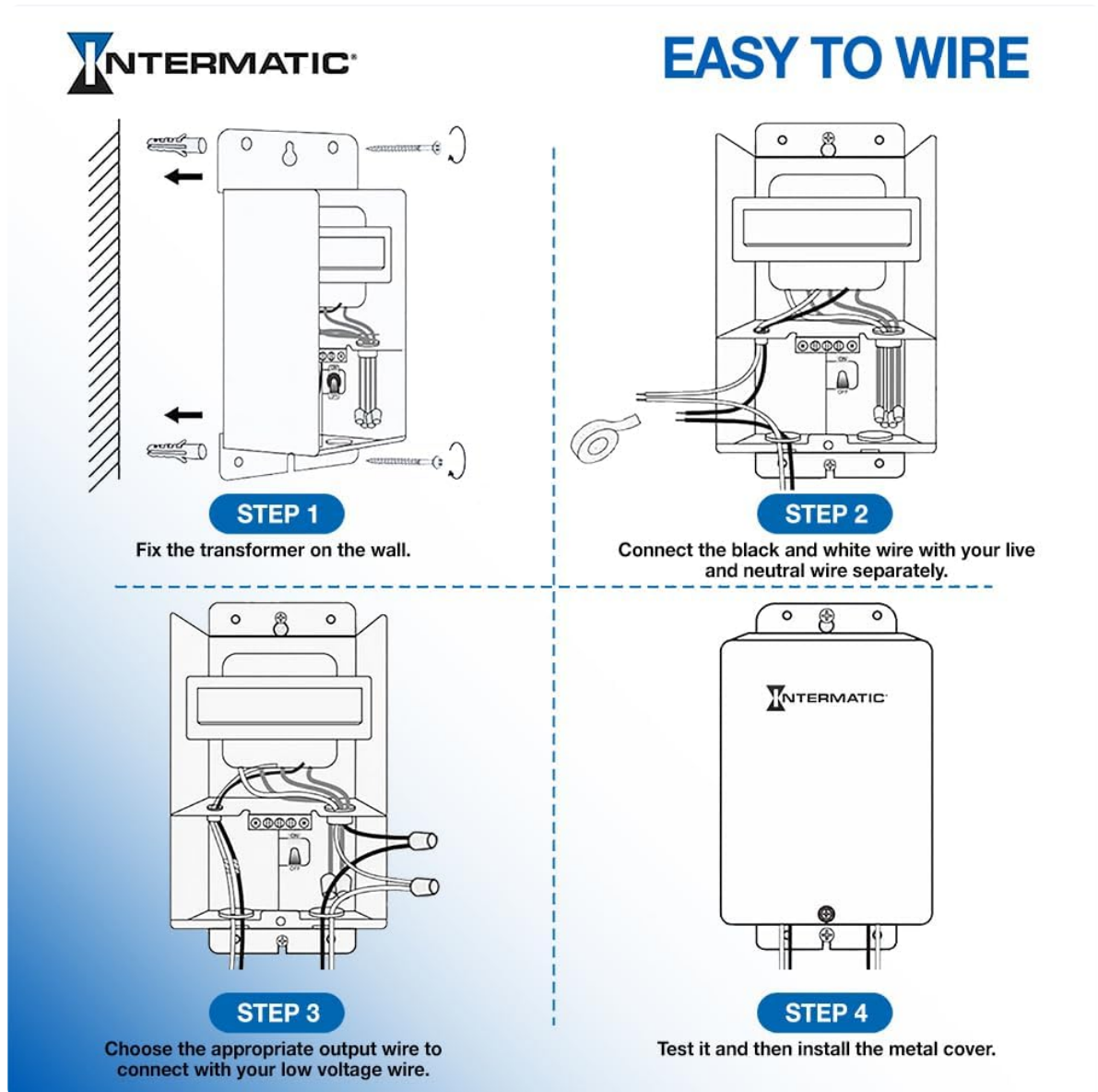


Image: Step 1 of installation, showing how to fix the transformer to the wall using mounting screws.

### 2. Connecting Input Power (120V AC):

Connect the black (live) and white (neutral) wires from your 120V AC power source to the designated input terminals inside the transformer. Ensure connections are secure and insulated.



## SIMPLE SETUP & INSTALLATION

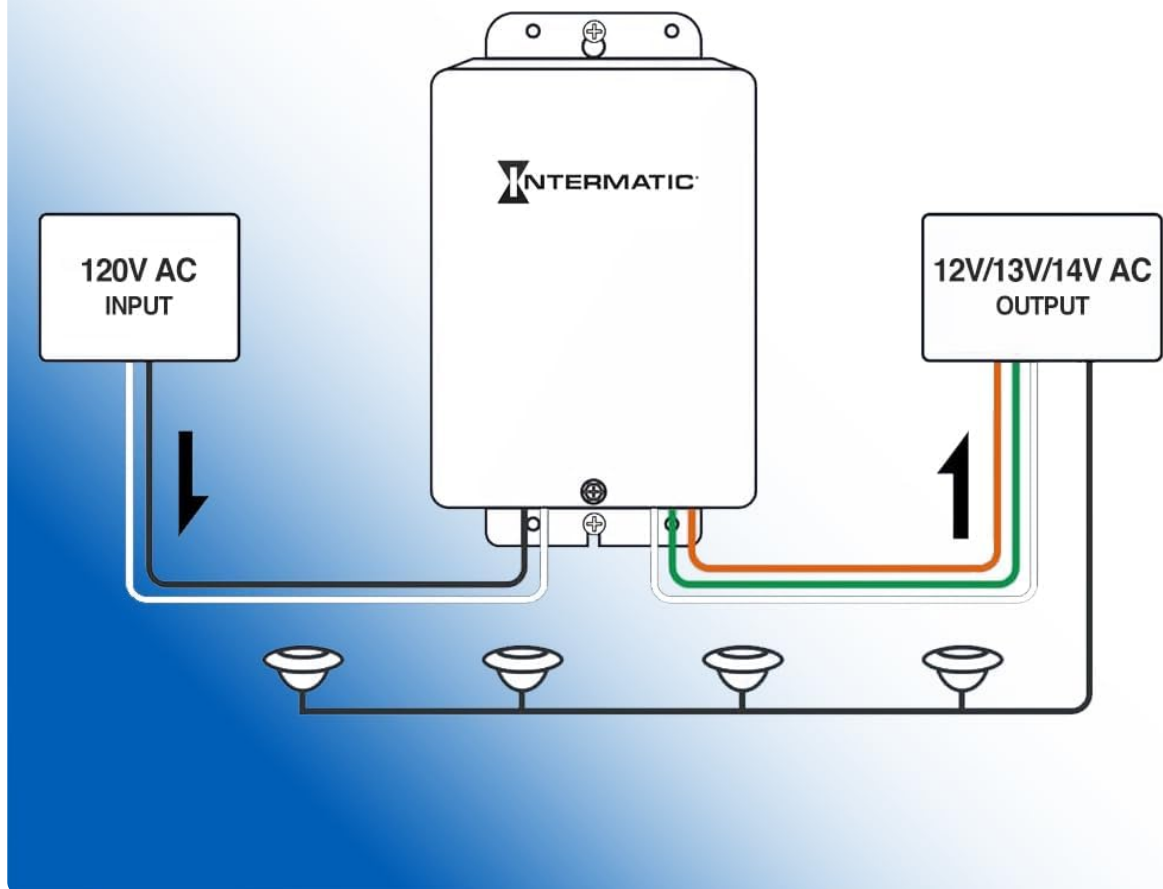


Image: A simplified wiring diagram showing 120V AC input connected to the transformer, and the low voltage output connected to lights.

### 3. Connecting Output Power (12V/13V/14V AC):

Choose the appropriate output wire (12V, 13V, or 14V) based on your lighting requirements and connect it to your low voltage lighting system. The transformer provides flexibility for various wattage needs up to 100W max.

### 4. Grounding:

Ensure the transformer is properly grounded to prevent electrical hazards. Connect the ground wire to the designated ground terminal.

### 5. Testing and Enclosure:

After all connections are made and verified, test the system. Once confirmed operational, install the metal cover securely to protect the internal components from the elements.

Your browser does not support the video tag.

Video: An official video from Intermatic demonstrating the features and installation aspects of their safety transformers, including the PX100 model. This video highlights the product's quiet operation, circuit protection, and ease of wiring.

## 5. OPERATING INSTRUCTIONS

The Intermatic PX100 transformer operates automatically once properly installed and powered. It is designed for continuous operation to provide consistent low-voltage power to your connected lights.

- Ensure the power supply to the transformer is always on for your lights to function.
- The internal circuit protection will automatically reset after approximately 15 minutes if an overload or short circuit occurs. No manual reset is required.
- The transformer is designed to operate quietly, minimizing noise interference with your outdoor environment.

## 6. MAINTENANCE

The Intermatic PX100 transformer requires minimal maintenance due to its robust construction and sealed design. However, periodic checks are recommended to ensure longevity and safe operation:

- Periodically inspect the transformer's enclosure for any signs of physical damage, corrosion, or loose connections.
- Ensure the area around the transformer is clear of debris and allows for adequate ventilation.
- Do not attempt to open the transformer or service any internal parts. Refer to qualified personnel for any repairs.

## 7. TROUBLESHOOTING

If your Intermatic PX100 transformer or connected lights are not functioning as expected, consider the following:

Problem	Possible Cause	Solution
Lights are off or flickering.	Overload or short circuit detected by internal protector.	Disconnect power, check for shorts or excessive load. Allow 15 minutes for the internal protector to reset. Reconnect power.
No power to transformer.	Circuit breaker tripped or loose input wiring.	Check the circuit breaker and ensure it is in the "ON" position. Verify input wiring connections are secure (consult qualified electrician).
Lights are dim.	Incorrect voltage tap selected or excessive wire length/gauge.	Ensure the correct voltage tap (12V, 13V, or 14V) is used for your lights. Consult a professional to check wire gauge and length for voltage drop.

If issues persist after troubleshooting, contact a qualified electrician or Intermatic customer support.

## 8. SPECIFICATIONS

Feature	Detail
Model Number	PX100
Input Voltage	120 VAC
Output Voltage	12 VAC, 13 VAC, or 14 VAC
Maximum Wattage	100 Watts
Frequency	60 Hz
Current Rating	1 Amp
Enclosure Type	3R Rainproof Metal Enclosure
Dimensions (H x W x D)	7.25" x 5.25" x 4.5" (19.4 cm x 13.3 cm x 11.4 cm)
Item Weight	5 pounds (2.27 kg)
Compliance	NEC Code 680.23, UL Listed

## 9. WARRANTY AND SUPPORT

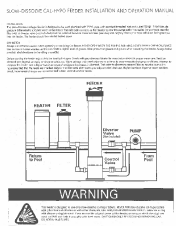
The Intermatic PX100 Safety Transformer comes with a 1-year warranty from the date of purchase, covering defects in materials and workmanship. For warranty claims or technical support, please contact Intermatic customer service.






For additional information or to download the official user manual, please refer to the following resource:

- [Official User Manual \(PDF\)](#)
- [Visit the Intermatic Store on Amazon](#)

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### Related Documents - PX100

	<p><a href="#">Intermatic Pool and Spa Lighting Transformers Installation and Operation Manual</a></p> <p>This manual provides installation, operation, and safety instructions for Intermatic PX Series Low Voltage Landscape and Swimming Pool/Spa Light Transformers, including models PX100, PX100S, PX300, and PX300S. It covers wiring, safety precautions, specifications, and warranty information.</p>
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	<p><a href="#">Intermatic PX Series Low Voltage Transformers: Installation, Operation &amp; Service Manual</a></p> <p>Installation, operation, and service manual for Intermatic PX100, PX100S, PX300, and PX300S low voltage transformers. Covers safety, specifications, installation guidelines, wiring tables, and warranty for landscape, pool, and spa lighting.</p>
	<p><a href="#">Intermatic ML44T 44 Watt Low Voltage Landscape Lighting Power Pack Installation Guide</a></p> <p>Installation and user guide for the Intermatic ML44T 44 Watt low voltage landscape lighting power pack. Covers safety warnings, setup, timer operation, and troubleshooting.</p>
	<p><a href="#">Intermatic PF1103T PF1103MT Freeze Protection Control Installation Operation Service Manual</a></p> <p>This manual provides detailed installation, operation, and troubleshooting instructions for the Intermatic PF1103T and PF1103MT freeze protection controls, designed for pool and spa equipment. Includes wiring diagrams and warranty information.</p>
	<p><a href="#">Intermatic ML44T 44 Watt Landscape Lighting Power Pack Installation and User Guide</a></p> <p>This guide provides instructions for installing and operating the Intermatic ML44T 44 Watt outdoor landscape lighting power pack. It includes safety warnings, technical specifications, step-by-step installation procedures, timer settings, troubleshooting tips, and warranty information.</p>
	<p><a href="#">Intermatic PJB2175 &amp; PJB4175 Electrical Junction Box Installation Manual</a></p> <p>Installation, operation, and service instructions manual for the Intermatic PJB2175 and PJB4175 electrical junction boxes designed for pool and spa luminaires. Includes safety instructions, general information, installation steps, troubleshooting, and warranty details.</p>