

Transformer - 50 W Pool & Spa Safety Transformer, Beige Steel Enclosure, Input 120V, Output 12,13,14 V

Item PX50



PRODUCT DESCRIPTION

These safety transformers are specifically designed to supply 12-14 VAC and are suitable for direct connection to underwater pool/spa lights. A grounded shield between the primary and secondary winding assures safe operation. Built-in circuit protection will disconnect power to the transformer in case of an overload.

FEATURES

- ▶ Mounting brackets on the top and bottom
- ▶ Built-in circuit protection disconnects power temporarily in case of overload
- ▶ Complies with NEC Code 680.23 requirements for underwater luminaries

APPLICATIONS

- ▶ Landscape Lighting
- ▶ Underwater Lighting

TECHNICAL DATA

General

Model Number	PX50
Description	50 W Pool & Spa Safety Transformer, Beige Steel Enclosure, Input 120V, Output 12,13,14 V
UPC Code	078275127593
Brand	Intermatic
Country of Origin (Intermatic)	U.S.A.
Warranty Period	1-Year limited

Mechanical Specifications

Enclosure Type	3R Beige metal
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Dimensions

Product Dimensions (H x W x D) in	7.25 x 5.25 x 4.5 in
Knockout Dimensions Bottom	(4) combination 1/2" - 3/4"
Knockout Dimensions Back	(2) combination 1/2" - 3/4"
Knockout Dimensions Left	(2) combination 1/2" - 3/4"
Knockout Dimensions Right	(2) combination 1/2" - 3/4"

Material Specifications

Color	Beige
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Electrical Specifications

Output Voltages	12 VAC; 13 VAC; 14 VAC
Maximum Power Consumption (W)	50 W
Transformer (W)	50
Transformer Input Voltage	5 A, 120 VAC, 60 Hz
Transformer Output Voltage	12, 13, 14 VAC

Packaging

Shipping Weight (lbs)	5.45
Unit Carton Dimensions (H x W x L) in	7.88 x 4.56 x 5.69 in

Standards and Certifications

CSA Certification	cCSAus
Other Certifications and Compatibilities	NEC Code 680.23
California Proposition 65	DEHP
RoHS Certification	X

ACCESSORIES



ET-NF
RC Snubber Noise Filter 24-277VAC/DC for Electronic Controls

Model: PX50 and PX50S - 50 W Transformers

INPUT: 120 VAC, 0.5 A Max, OUTPUT: 12, 13 or 14 VAC

Read and follow the safety instructions listed below and other basic safety precautions before installation or operation of this transformer and other associated equipment.

⚠ WARNING Risk of Fire or Electrical Shock

- If installation involves running wire through a building structure, special wiring methods are needed.
- Do Not submerge transformer.
- Do Not exceed the maximum ratings of individual components, wiring devices, and current carrying capacity of conductors.
- Select cable for each secondary output in accordance with tables in this manual.
- Select power source by combining bulb wattage.
- For landscape lighting appliances, low voltage cable shall be buried a maximum of 6 inches (15.2 cm) in order to connect to the main low voltage cable.

GENERAL INFORMATION

These Safety Transformers are specifically designed to supply 12 VAC to pool/spa lights, submersible fixtures and outdoor garden lights. The built-in circuit protection will disconnect power to the transformer in case of defect or overload.

SPECIFICATIONS

Enclosure Size: 7 1/4" (19.4 cm) high x 5 1/4" (13.3 cm) wide x 4 1/2" (11.4 cm) deep. Mounting brackets top and bottom.

Enclosure Type:

PX50 - 0.048" corrosion resistant steel with electrostatically applied paint.

PX50S - 0.036" Stainless Steel.

Knockouts: Total of ten 1/2"-3/4" combination. (4) bottom, (2) right side, (2) left side, (2) back.



Pool/Spa Underwater Lighting Application

INSTALLATION

For field wiring information, please refer to the instructions attached to inside of front cover.

- Make sure that all unused taps (leads) are separately insulated.
- Check voltage at lamp terminals after installation. It should be 12 ± 0.3 VAC.
- Voltages above 12.3 VAC at the light may cause the internal safety fuse of the transformer to switch off and on. To prevent this from happening follow chart below for correct voltage and wire gauge selection.

Step 1 Select power source by adding up Bulb Watts
Step 2 Determine length of cable run(s)
Step 3 Determine wire gauge needed to deliver needed power
Step 4 Connect cable to output tap of transformer given in table

Transformer Cable - Voltage Selection Chart					
Length of Cable	50 W Transformer				
10 ft	12 V	12 V	12 V	12 V	12 V
20 ft	13 V	12 V	12 V	12 V	12 V
30 ft	13 V	13 V	12 V	12 V	12 V
50 ft	14 V	13 V	13 V	12 V	12 V
75 ft		14 V	13 V	12 V	12 V
100 ft		14 V	13 V	13 V	12 V
125 ft			14 V	13 V	12 V
150 ft			14 V	13 V	13 V
175 ft			14 V	13 V	13 V
200 ft				13 V	13 V
250 ft				14 V	13 V
Wire Gauge (AWG)	#18*	#16	#14	#12	#10

* Minimum Gauge Cable

**Blank fields indicate conditions not suited for wiring

LIMITED WARRANTY

Warranty service is available by either (a) returning the product to the dealer from whom the unit was purchased or (b) completing a warranty claim online at www.intermatic.com. This warranty is made by: Intermatic Incorporated, 1950 Innovation Way, Suite 300, Libertyville, IL 60048.

For additional product or warranty information go to: <http://www.intermatic.com> or call 815-675-7000.

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INTERMATIC INCORPORATED, LIBERTYVILLE, IL 60048
<http://www.intermatic.com>

Modelo: PX50 y PX50S - Transformadores de 50 W

ENTRADA: 120 V CA, 0.5 A Máx., SALIDA: 12, 13 o 14 V CA

Lea y siga las instrucciones de seguridad enumeradas a continuación y otras precauciones básicas de seguridad antes de instalar o hacer funcionar este transformador y otros equipos asociados.

⚠ **ADVERTENCIA** *Riesgo de incendio o descarga eléctrica*

- Si la instalación implica el tendido del cable a través de la estructura de una construcción, se necesitan métodos de cableado especiales.
- No sumerja el transformador.
- No exceda las clasificaciones máximas de los componentes individuales, los dispositivos de cableado y la capacidad de carga de corriente de los conductores.
- Seleccione el cable para cada salida secundaria de acuerdo con las tablas de este manual.
- Seleccione la fuente de alimentación combinando la potencia de las bombillas.
- Para los aparatos de iluminación de jardines, el cable de bajo voltaje se debe enterrar un máximo de 6 in (15.2 cm) con el fin de conectar el cable principal de bajo voltaje.

INFORMACIÓN GENERAL

Estos transformadores de seguridad están diseñados específicamente para suministrar 12 V CA a las luces de piscina/spa, los accesorios sumergibles y las luces de jardín en exteriores. La función de protección del circuito incorporada desconectará la alimentación del transformador en caso de defectos o sobrecarga.

ESPECIFICACIONES

Tamaño de la caja: 7 1/4" (19.4 cm) de alto x 5 1/4" (13.3 cm) de ancho x 4 1/2" (11.4 cm) de profundidad. Soportes de montaje en la parte superior e inferior.

Tipo de caja:

PX50: acero resistente a la corrosión de 0.048" con pintura aplicada electrostáticamente.

PX50S: acero inoxidable de 0.036".

Troqueles: Total de diez combinaciones de 1/2"-3/4". (4) abajo, (2) lado derecho, (2) lado izquierdo, (2) atrás.



Aplicación de iluminación subacuática para piscinas/spas

INSTALACIÓN

Para obtener información sobre el cableado de campo, consulte las instrucciones adjuntas en el interior de la cubierta frontal.

- Asegúrese de que todas las tomas (cables) no utilizadas estén aisladas por separado.
- Verifique el voltaje en los terminales de la lámpara después de la instalación. Debe ser de 12 ± 0.3 V CA.
- Los voltajes superiores a 12.3 V CA en la luz pueden hacer que el fusible de seguridad interno del transformador se apague y se encienda. Para evitar que esto suceda, siga la tabla a continuación para seleccionar correctamente el voltaje y calibre del cable.

Paso 1	Seleccione la fuente de alimentación sumando los vatios de la bombilla
Paso 2	Determine la longitud de los tramos de cable
Paso 3	Determine el calibre del cable necesario para suministrar la potencia necesaria
Paso 4	Conecte el cable a la toma de salida del transformador que se indica en la tabla

Cable del transformador: Tabla de selección de voltaje					
Longitud del cable	Transformador de 50 W				
10 ft	12 V	12 V	12 V	12 V	12 V
20 ft	13 V	12 V	12 V	12 V	12 V
30 ft	13 V	13 V	12 V	12 V	12 V
50 ft	14 V	13 V	13 V	12 V	12 V
75 ft		14 V	13 V	12 V	12 V
100 ft		14 V	13 V	13 V	12 V
125 ft			14 V	13 V	12 V
150 ft			14 V	13 V	13 V
175 ft			14 V	13 V	13 V
200 ft				13 V	13 V
250 ft				14 V	13 V
Calibre del cable (AWG)	N.º 18*	N.º 16	N.º 14	N.º 12	N.º 10

* Cable de calibre mínimo

**Los campos en blanco indican condiciones no adecuadas para el cableado.

GARANTÍA LIMITADA

El servicio de garantía está disponible mediante (a) la devolución del producto al proveedor al que se le compró la unidad; o (b) el llenado de un reclamo de garantía en línea en www.intermatic.com. Esta garantía está hecha por: Intermatic Incorporated, 1950 Innovation Way, Suite 300, Libertyville, IL 60048.

Para obtener información adicional sobre el producto o la garantía, visite <http://www.intermatic.com> o llame al 815-675-7000.

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<http://www.intermatic.com>

Pool & Spa Safety Transformer



INTERMATIC SAFETY TRANSFORMERS OUTMATCH THE COMPETITION

While it's easy for competing products to have a similar look and functionality, what's under the surface can make the difference between true long-term value and a solution that's "just good enough." Here's how Intermatic Safety Transformers stand apart from the competition:

- **New Built-in Noise Filter**

Reduce electronic noise and interference in low-voltage lighting applications through the built-in noise filter found in Intermatic PX50, PX100 and PX300 models (including stainless steel models).

- **Super Quiet Stainless Steel**

For the quietest audible sound levels, choose non-magnetic stainless steel models.

- **Automatic Breaker Reset**

Save time and service calls when transformers overload with the automatic breaker reset feature found in Intermatic models. Unlike competing solutions, which require users to open the device and manually reset the breaker, Intermatic transformers do this automatically.

- **Wiring Flexibility**

All Intermatic Transformers include extra space within the enclosure to simplify wiring and streamline installations.

- **Trusted Brand**

Intermatic brings more than 125 years of experience to the design and manufacturing process. Our safety transformers are manufactured in our North American ISO 9000 facility, which includes a rigorous quality control process and in-house engineering team. Intermatic is supported by both electrical and pool and spa sales representatives across the country.



NEW BUILT-IN NOISE FILTER
Reduces electronic noise and interference when used in low-voltage lighting applications

PREMIUM CONSTRUCTION
Manufactured in an ISO-certified facility that includes more than 40 on-site specialty engineers

SUPER QUIET STAINLESS STEEL
Non magnetic Stainless steel reduces audible hum in low-voltage lighting applications

AUTOMATIC BREAKER RESET
Provides a seamless restoration following an overload event, eliminating nuisance service calls

WIRING FLEXIBILITY
Extra space within the enclosure simplifies installations

PX100S