

# QUICKTRONIC® ICE Universal Voltage

## Electrodeless Fluorescent Systems

### Lamp / Ballast Guide

Lamp:  
ICE 70W 2P  
Ballast:  
QT1x100ICE/UNV

Lamp:  
ICE 100W 2P  
ICE 100W/R/2P  
Ballast:  
QT1x100ICE/UNV  
QT1x150ICE/UNV

Lamp:  
ICE 150W 2P  
Ballast:  
QT1x150ICE/UNV

SYLVANIA QUICKTRONIC ICE offer several advantages:

1. Operate SYLVANIA ICETRON® electrodeless fluorescent lamps with maximum efficacy and full lumen output.
2. Longest life available from a fluorescent system – 100,000 hour average rated life:
  - greatly reducing maintenance costs
  - extending relamping cycles.
3. Extensive thermal performance: rated for operation in environments from – 40°C (-40°F) up to 50°C (122°F). SYSTEM ICE is suitable for a variety of applications traditionally addressed by HID systems.  
*(Note: starting temp. -25°C (-13°F) for 70W lamp)*



Setting the standard for quality, SYSTEM ICE is also covered by our QUICK 60+® warranty, the first and most comprehensive system warranty in the industry.

### Key System Features

- 100,000 Hour lamp life
- Instant on / Instant restrike
- Universal voltage
- 100% Ballast factor or higher
- High luminous efficacy
- Quiet operation
- High power factor
- Low harmonic distortion
- UL, CSA, FCC

### System Information

- SYSTEM ICE features:
- Operation from a line voltage of either 120V or 277V
  - A special wire/connector system required for inductively coupled systems.
  - Inductively coupled lamp design:
    - eliminates the use of filaments inside the lamp, removing one of the life limiting factors of a fluorescent lamp
    - reduces blackening
    - provides an average rated life of 100,000 hours with maximum energy efficiency

Lamp amalgam tip position will affect light output at various temperatures.

A complete ICETRON system design guide (literature code FL022) is available to assist with proper fixture design for thermal management to achieve system performance and rated life.

QUICKTRONIC ICE is available in two case configurations, UL Type 1 or Type 2 Outdoor rated. The Type 1 models are suitable for general applications and the Type 2 models are ideal for harsh environments, such as damp or wet locations.

System Type	Input Wattage	Initial Lumens	System LPW
Metal Halide 70W	90	5200	58
FBO31 2-lamp ICE70W	57 79/77	4900 6500	86 82/84
Metal Halide 100W	125	8500	68
FBO31 3-lamp ICE100	84 106/103	7360 8000	88 75/77
Metal Halide 150W	180	12900	72
ICE150	161/156	12000	74/76

### Application Information

#### SYLVANIA QUICKTRONIC ICE

is ideally suited for:

- Commercial
- Retail
- Sign lighting
- Street lighting
- Tunnel lighting

**SPECIFICATION DATA**

Catalog #	Date	Type
Project	Prepared by	
Comments		

**Electrodeless Fluorescent Systems Universal Voltage (120-277V)**

Item Number	Description*	Input Voltage (VAC)	Input Current (AMPS)	Lamp Type	Rated <sup>1</sup> Lumens (lm)	No. of Lamps	Ballast Factor (BF)	System Lumens	Input Wattage (W)	System Efficacy (lm/W)
49753	QT 1x100 ICE/UNV-T	120-277	0.88/0.37	ICE100	8,000	1	1.00	8,000	106/103	75/77
49756	QT 1x100 ICE/UNV-W		0.66/0.29	ICE70	6,200	1	1.05	6,500	79/77	82/84
49772	QT 1x150 ICE/UNV-T	120-277	1.34/0.58	ICE150	12,000	1	1.00	12,000	161/156	74/76
49773	QT 1x150 ICE/UNV-W		1.28/0.54	ICE100	8,000	1	1.38	11,000	154/149	71/73

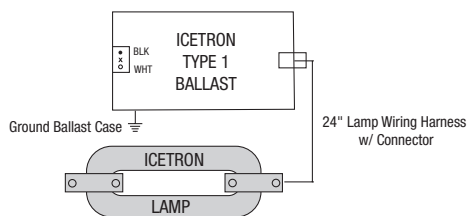
1: Rated lamp lumens and performance data based on SYLVANIA ICETRON lamps.

**Use only with SYLVANIA ICETRON lamps (for additional lamp types contact OSRAM SYLVANIA).**

Item Number	Lamp Description	Item Number	Lamp Description	Item Number	Lamp Description
26087	ICE 70/835/2P	26102	ICE100/835/2P	26152	ICE150/835/2P
26088	ICE 70/841/2P	26103	ICE100/841/2P	26153	ICE150/841/2P
26089	ICE 70/850/2P	26105	ICE100/850/2P	26155	ICE150/850/2P
		26161	ICE100/841/R/2P/ECO (reflector)	26154	ICE150/BL/2P/ECO (black light)
		26106	ICE100/BL/2P/ECO (black light)		

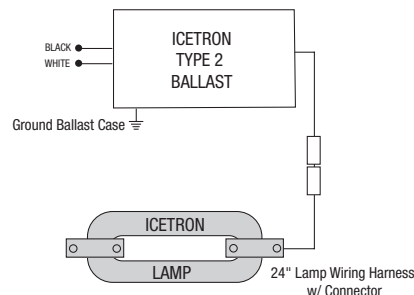
**Type 1 Wiring: Connector (No leads provided)**

Input: Use solid copper wire only 18 AWG, strip length 3/8"  
 Output: Use only output connector with SYLVANIA ICETRON® 2P lamps listed above



**Type 2 Wiring:**

Input: Integral lead wires, 600V, 18 AWG solid copper, approx 24" length  
 Output: Wire harness, approx 24" length with mating connector to lamp wiring harness

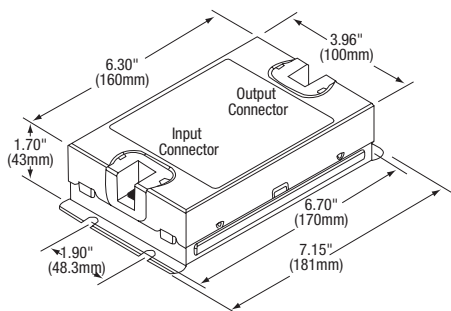


**Type 1 Dimensions:**

Overall: 7.15" L x 3.96" W x 1.70" H  
 Mounting: 6.70" L x 1.90" W

**Packaging:**

Quantity: 5  
 Weight: 1.9 lbs ea. (approx.)

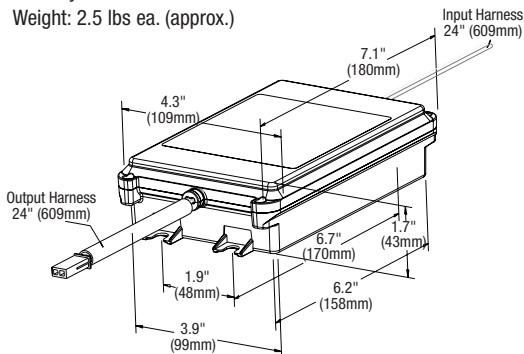


**Type 2 Dimensions:**

Overall: 7.10" L x 4.30" W x 1.70" H  
 Mounting: 6.70" L x 1.90" W

**Packaging:**

Quantity: 5  
 Weight: 2.5 lbs ea. (approx.)



Item Number 49753 QT 1 x 100 ICE / UNV - T Case Type (Topmount or Watertight)  
 QUICKTRONIC Line Voltage (120-277V)  
 Number of Lamps System Type - ICETRON  
 Primary Lamp Wattage

**ICETRON®**

**Performance Guide**

\*Models rated UL Type 1 ("T" suffix) are designed for general lighting applications. Models rated UL Type 2 ("W" suffix) provide protection from water intrusion and are suitable for damp or wet locations.

**Specifications<sup>2</sup>**

Starting Method: I.C.E.  
 Circuit Type: I.C.E.  
 Lamp Frequency: 200-300kHz  
 Starting Temp: -40°F(-40°C)  
 -13°F(-25°C) for 70W lamp  
 Input Frequency: 50/60 Hz  
 Low THD: <15%  
 Power Factor: >90%  
 Voltage Range: ±10% of 120-277V rated line (108-305V)

UL Listed Class P, Type 1 or Type 2, Outdoor  
 CSA Certified  
 Temp. Test Point (Tc) on ballast label:  
 70°C Max (150W)  
 65°C Max (100W)  
 FCC 47CFR Part 18 Non-Consumer Sound Rated A  
 ANSI C62.41 Cat. A Transient Protection  
 Remote Mounting: contact OSRAM SYLVANIA

2 Data based on ICETRON lamp types.

**System Life / Warranty**

QUICKTRONIC products are covered by our QUICK 60+® warranty, a comprehensive lamp and ballast system warranty. For additional details, refer to our QUICK 60+ warranty bulletin.

**OSRAM SYLVANIA**  
**National Customer Service and Sales Center**  
 1-800-LIGHTBULB  
 (1-800-544-4828)  
 www.sylvania.com

the system solution®

Specifications subject to change without notice.

ICE