

QUICKTRONIC® ICE Universal Voltage Systems



Electrodeless Fluorescent Systems

Lamp / Ballast Guide

ICETRON lamp:
ICE 40W
Ballast:
QT1x40ICE/UNV

ICETRON lamp:
ICE 70W
Ballast:
QT1x100ICE/UNV

ICETRON lamps:
ICE 100W
Ballast:
QT1x100ICE/UNV
QT1x150ICE/UNV

ICETRON lamp:
ICE 150W
Ballast:
QT1x150ICE/UNV

SYLVANIA QUICKTRONIC ICE ballasts offer several advantages:

- Operate SYLVANIA ICETRON® electrodeless fluorescent lamps with maximum efficacy and full lumen output.
- Longest life available from a fluorescent system – 100,000 hour average rated life:
 - greatly reducing maintenance costs
 - extending relamping cycles.
- 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 40W and 70W lamps)

These ballasts are RoHS compliant and feature lead-free solder and manufacturing process.



Setting the standard for quality, the ICETRON lamp and ballast System are covered by the 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
- 1.00 - 1.38 Ballast factor
- High luminous efficacy
- Quiet operation
- High power factor
- Low harmonic distortion
- UL, CSA, FCC
- RoHS compliant - Ballast
- Lead-free solder and manufacturing process

System Information

ICE ballast 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.

System Type	Input Wattage	Initial Lumens	System LPW
Metal Halide 70W FB031 2-lamp ICE70W	90 57 79/77	5200 4900 6500	58 86 82/84
Metal Halide 100W FB031 3-lamp ICE100	125 84 106/103	8500 7360 8000	68 88 75/77
Metal Halide 150W ICE150	180 161/156	12,900 12,000	72 74/76

QUICKTRONIC ICE ballast 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.

Application Information

SYLVANIA QUICKTRONIC ICE ballasts

are ideally suited for:

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

SPECIFICATION DATA

Catalog #	Date	Type
Project	Prepared by	
Comments		

**QUICKTRONIC® T12 Electronic Fluorescent Ballasts
40T12RS & 96T12IS Universal Voltage (120-277V)**

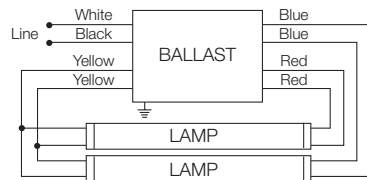
Item Number	OSRAM SYLVANIA Description	Input Current (AMPS) @120/277V	Lamp ¹ Type	Rated Lumens (lm)	No. of Lamps	Ballast Factor (BF)	System Lumens	Input Power (W) @120/277V	System Efficacy ² (lm/W) @120/277V	BEF ¹
50314	QTP2x40T12/UNV/RS/SC	0.62/0.27	F40T12/D30/ECO	3200	2	0.88	5630	74/74	76	1.19
		0.53/0.23	F34/D830/SS	2900	2	0.85	4930	63/63	78	1.35
50308	QTP2x96T12/UNV/IS	1.12/0.50	F96T12/D41/ECO	6420	2	0.86	11,040	134/130	82/85	0.66
		0.91/0.40	F96T12/CW/SS	5300	2	0.87	9220	108/106	85/87	0.82
		0.88/0.40	F72T12/CW	4500	2	0.92	8280	105/103	79/80	0.89
		0.62/0.28	F48T12/CW	2820	2	0.92	5190	73/71	71/73	1.30
		0.52/0.24	F48T12/SS/CW	2450	2	0.92	4510	62/61	73/74	1.51
		0.69/0.31	F96T12/D41/ECO	6420	1	1.01	6485	82/81	79/80	1.25
		0.56/0.27	F96T12/CW/SS	5300	1	1.10	5830	67/66	87/88	1.67
		0.55/0.26	F72T12/CW	4500	1	1.07	4815	65/64	74/75	1.67

New 50308 QTP2x96T12/UNV/IS model replaces 50318 that is discontinued.

Also compatible with other manufacturer's equivalent lamp types that meet ANSI standards.

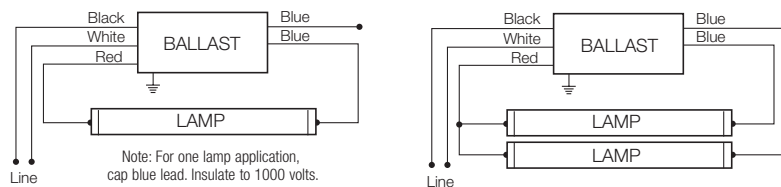
1 Ballast Efficiency Factor (BEF) shown = (Ballast Factor x 100) divided by Input Power (Note: calculation based on lowest wattage value).

2 System Efficacy calculation based on lowest input power value unless otherwise noted.



Ground Ballast and mount lamps within 1/2" of grounded metal reflector

QTP 2x40T12 RS



Ground Ballast and mount lamps within 1/2" of grounded metal reflector

QTP 2x96T12 IS

Dimensions:

Model QTP2x40T12/UNV/RS/SC enclosure size

Overall: 9.5" L x 1.38" W x 1.18" H

Mounting: 8.9"

Weight: 1.25 lbs ea. (approx.)

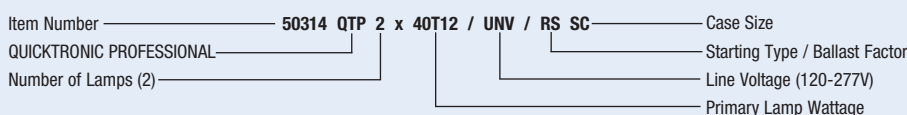
Dimensions:

Model QTP2x96T12/UNV/IS enclosure size

Overall: 11.75" L x 2.15" W x 1.61" H

Mounting: 11"

Weight: 4.67 lbs ea. (approx.)



Specifications subject to change without notice.

Normal Ballast Factor

T12

Professional Series

Performance Guide



Specifications

Data based on F40T12 for RS, F96T12 for IS

Starting Method:

RS - Rapid Start

IS - Instant Start

Circuit Type: RS - Parallel

IS - Parallel

Starting Temp: 0°F (-18°C)

SUPERSAVER® Lamps: 60°F(16°C)

Input Frequency: 60 Hz

THD: QTP40T12/UNV RS: <10%;

QTP2x96T12 IS: <15%

Power Factor:

QTP40T12/UNV RS: >97%

QTP2x96T12 IS >0.96 (for F96T12);

>0.91(for other lamps)

Input Voltage: ±10% of Rated Input

Lamp Crest Factor: <1.8

Lamp Frequency: >20 kHz

UL Listed Class P, Type 1 Outdoor

CSA or CUL Certified

70°C Max. Case Temp.

FCC 47CFR Part 18 Non-Consumer

Class A Sound Rating

ANSI C62.41 Cat A. Transient Protection

System Life / Warranty

QUICKTRONIC products are covered by the QUICK 60+® warranty. For additional details, refer to the QUICK 60+ warranty bulletin.

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



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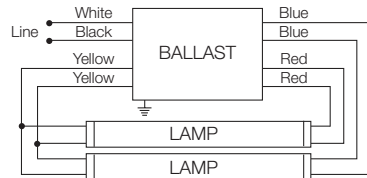
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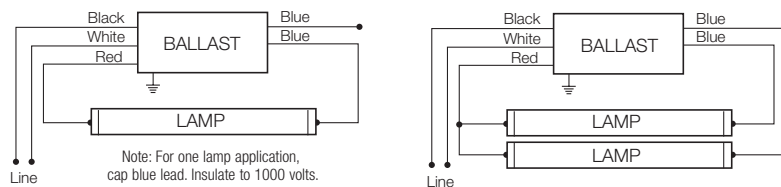
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QTP 2x40T12 RS



Note: For one lamp application, cap blue lead. Insulate to 1000 volts.

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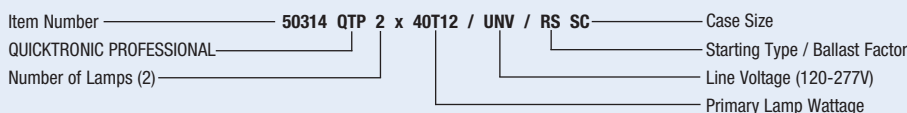
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