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# **QUICKTRONIC® T8 Instant Start Universal Voltage Systems**



## Lamp Striation Control Normal Ballast Factor

## High Efficiency Series

## Lamp / Ballast Guide

32W T8 - OCTRON® lamps 1-lamp QHE1x32T8/UNV ISN-SC 2-lamp QHE2x32T8/UNV ISN-SC 3-lamp QHE3x32T8/UNV ISN-SC 4-lamp QHE4x32T8/UNV ISN-SC

#### Also operates:

25

0

FB032, FB031, F025, FB024, F017, FB016, F030/SS (30W), FB030/SS (30W), FB029/SS (29W), F028/SS (28W) & F025/SS (25W)

#### F040T8 operation:

1 lamp on 2L ballast; 2 lamps on 3L ballast; 3 lamps on 4L ballast

## **Key System Features**

- High Efficiency Systems over 90% efficient
- NEMA Premium Electronic Ballast Program compliant
- Lamp Striation Control (LSC) · Over 100 LPW (lumens/watt) with **OCTRON SUPERSAVER® lamps**
- Lowest power T8 I.S. Systems
- Universal voltage (120-277V)
- · Small Can enclosure size
- 30-50% Energy savings
- · Min. Starting Temp:
  - -20°F(-29°C) for T8 lamps • 60°F (16°C) for Energy Saving T8 lamps
- 0°F (-18°C) for F040T8 lamps • <10% THD</p>
- Virtually eliminates lamp flicker
- **RoHS** compliant
- · Lead-free solder and manufacturing process

### **Application Information**

## SYLVANIA QUICKTRONIC **High Efficiency ballasts**

are ideally suited for:

- · Any applications where the lowest power T8 systems are needed for maximum energy savings
- Energy Retrofits
- Commercial & Retail
- Hospitality & Institutional
- New Construction

#### Lamp Striation Control (LSC)

· General lighting applications where energy saving T8 lamps may striate, particularly for the F25 energy saving T8 lamps.

ECS402 - 6-13

SYLVANIA QUICKTRONIC High Efficiency, (QHE) energy-saving electronic T8 ballasts offer several advantages:

- 1. Same Light, Less Power!
- Up to 6% in energy savings compared to standard T8 low power electronic ballasts without compromising light output
- · Maximum energy savings when compared to F40T12 magnetically ballasted systems
- 2. Parallel Circuitry: keeps remaining lamps lit if one or more go out.
- 3. Lamp Striation Control (LSC): T8 energy saving lamps should be operated above 60°F. but under certain conditions the lamps may striate. LSC circuitry may minimize or eliminate this condition; however there are limited applications where LSC circuitry may not entirely mitigate lamp striations
- 4. NEMA Premium Electronic Ballast Program compliant. The program promotes the use of high efficiency T8 electronic ballasts by meeting or exceeding the Ballast Efficiency



Factors, (BEF) established by the CEE, (Consortium for Energy Efficiency). For additional information on this program go to: www.cee1.org or www.nema.org

#### 5. New Banded Packaging

- · Distributor-friendly for easy stocking and individual ballast sales
- Reduced waste
- · Easy removable bands
- · No tangled wires

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

### SYLVANIA QUICKTRONIC High Efficiency

(QHE) systems are also covered by the QUICK 60+® warranty, the first and most comprehensive lamp & ballast system warranty in the industry.

## **System Information**

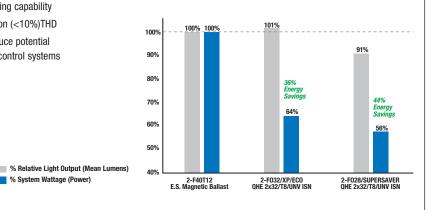
#### SYLVANIA QUICKTRONIC High Efficiency (QHE) System advantages:

- · Operate from 120V through 277V
  - · Eliminates "wrong voltage" errors • Reduces inventory by 50%
- · Utilizes Instant Start operation for
  - Highest System Efficacy · Low temperature starting capability

% System Wattage (Power)

- Very low harmonic distortion (<10%)THD
- Operate at >42 kHz to reduce potential interference with infrared control systems

	System Type (2-lamp)	Input Power (W)	Initial System Lumens	System Efficacy LPW	Mean System Lumens	Relative Mean Light Output	Energy Savings
	F40T12 – E.S. Magnetic Ballast	86	5795	67	4930	Baseline	Baseline
	F34T12 – E.S. Magnetic Ballast	72	4660	65	3960	80%	16%
	F032/XP® – QHE2x32T8/UNV ISN-SC F028/SS – QHE2x32T8/UNV ISN-SC	55 48	5280 4800	96 100	4965 4510	101% 91%	36% 44%







#### SPECIFICATION DATA

Comments

Project

# **Normal Ballast Factor**

## 8 Instant Start **High Efficiency**

**Performance Guide** 

# High Efficiency Universal Voltage (120-277V), Lamp Striation Control

Prepared by

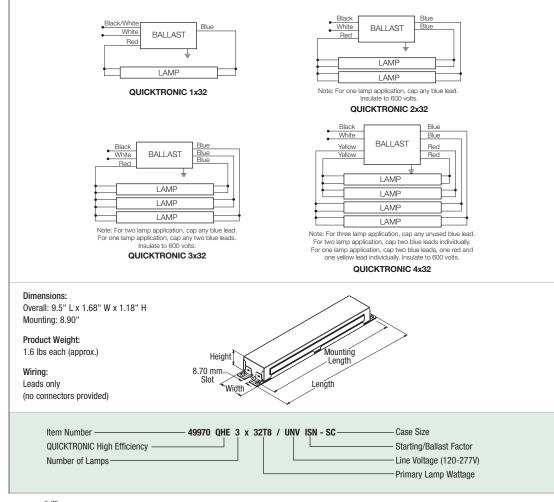
Date

Туре

ltem Number	OSRAM SYLVANIA Description	Input Current (AMPS)	Lamp Type	Rated Lumens (Im)	No. of Lamps	Ballast Factor (BF)	System Lumens	Mean Lumens	Input Power (W)	System Efficacy (Im/W)	BEF <sup>1</sup>
49968 49851	QHE1X32T8/UNV ISN-SC Banded Pack 10-Pack	0.25/0.11 0.25/0.11 0.22/0.09 0.21/0.09 0.19/0.09	F032/700 F032/XP® F030/SS F028/SS F025/SS	2600 3000 2850 <b>2725</b> 2475	1 1 1 1	0.88 0.88 0.88 <b>0.88</b> 0.88	2290 2640 2510 <b>2400</b> 2175	2105 2480 2360 <b>2255</b> 2045	28 28 26 <b>25</b> 22	82 94 97 <b>96</b> 99	3.14 3.14 3.38 <b>3.52</b> 4.00
49969 <i>49853</i>	QHE2X32T8/UNV ISN-SC Banded Pack 10-Pack	0.47/0.20 0.47/0.20 0.44/0.19 0.40/0.18 0.36/0.16	F032/700 F032/XP F030/SS F028/SS F025/SS	2600 3000 2850 <b>2725</b> 2475	2 2 2 <b>2</b> 2	0.88 0.88 0.88 <b>0.88</b> 0.88	4575 5280 5015 <b>4800</b> 4355	4205 4965 4715 <b>4510</b> 4095	55 55 52 <b>48</b> 43	83 96 96 <b>100</b> 101	1.60 1.60 1.69 <b>1.83</b> 2.05
49970 <i>49855</i>	QHE3X32T8/UNV ISN-SC Banded Pack 10-Pack	0.69/0.30 0.69/0.30 0.66/0.28 0.61/0.26 0.55/0.23	F032/700 F032/XP F030/SS F028/SS F025/SS	2600 3000 2850 <b>2725</b> 2475	3 3 3 <b>3</b> 3	0.88 0.88 0.88 <b>0.88</b> 0.88	6865 7920 7525 <b>7195</b> 6530	6310 7445 7075 <b>6760</b> 6140	83/82 83/82 78/77 <b>72</b> 65/64	83/84 95/97 96/98 <b>100</b> 101/102	1.07 1.07 1.14 <b>1.22</b> 1.38
49971 <i>49857</i>	QHE4X32T8/UNV ISN-SC Banded Pack 10-Pack	0.91/0.39 0.91/0.39 0.86/0.37 0.80/0.35 0.71/0.30	F032/700 F032/XP F030/SS F028/SS F025/SS	2600 3000 2850 <b>2725</b> 2475	4 4 4 4 4	0.88 0.88 0.88 <b>0.88</b> 0.88	9150 10560 10030 <b>9590</b> 8710	8415 9925 9430 <b>9015</b> 8190	108/107 108/107 102/101 <b>95</b> 85	85/86 98/99 98/99 <b>101</b> 102	0.82 0.82 0.87 <b>0.93</b> 1.04

Banded Pack. (add "-B" to Description). Banded Pack and 10-Pack contain 10 pieces each.

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



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Data based upon SYLVANIA OCTRON® lamps shown. QUICKTRONIC® QHE Instant Start ballasts are also compatible with other lamp manufacturers equivalent lamp types that meet ANSI specifications.

QHE Instant Start ballasts will operate F17, F25 and F32 (and the SUPERSAVER® & U-Bend equivalent) T8 lamps, Complete performance data is available in the QUICKSYSTEMS section of the SYLVANIA Ballast Technology & Specification Guide.

## **Specifications**

QHE

80

Starting Method: Instant Start Ballast Factor: 0.88 Circuit Type: Parallel Lamp Frequency: >42 kHz Lamp CCF: Less than 1.7 Starting Temp:<sup>2</sup> -20°F (-29°C) for OCTRON T8 lamps; 60°F (16°C) for SUPERSAVER® T8 lamps 0°F (-18°C) for F040T8 Input Frequency: 50/60 Hz Low THD: <10% Power Factor: >98% Voltage Range: ±10% of 120-277V rated line (108-305V) UL Listed Class P, Type 1 Outdoor CSA Certified 70°C Max Case Temperature FCC 47CFR Part 18 Non-Consumer Class A Sound Rating **RoHS Compliant<sup>3</sup>** NEMA Premium Electronic Ballast Program compliant ANSI C62.41 Cat. A Transient Protection GFCI compatible Emergency ballast compatible Remote Mounting (Max. wire length from ballast case to lampholder): • 20 ft: full wattage T8s • 10 ft: energy saving T8s 4 ft: 25W energy saving T8s 2 Operation below 50°F (10°C) may affect light output or lamp operation - see "Low Temp. Starting" definition. 3 Complies with European Union Restriction

of Hazardous Substances Directive (Directive EC 2002/95)

## System Life / Warranty

QUICKTRONIC products are covered by the QUICK 60+® warranty, a comprehensive lamp and ballast system 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

Specifications subject to change without notice.