

QUICKTRONIC® T8 Instant Start Universal Voltage Systems

High Efficiency Series

QHE T8 ISH

Lamp / Ballast Guide

32W T8 – OCTRON® lamps
3-lamp QHE3x32T8/UNV ISH-SC
4-lamp QHE4x32T8/UNV ISH

Also operates:

FBO32, FBO31, F030/SS (30W), FBO30/SS (30W), FBO29/SS (29W), F028/SS (28W) & F025/SS (25W)

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 PLUS Systems
- Universal voltage (120-277V)
- 1.15-1.18 ballast factor
- 30-50% Energy savings
- Min. Starting Temp:
 - -20°F (-29°C) for T8 lamps
 - 60°F (16°C) for Energy Saving T8 lamps
- <10% THD
- 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 highest light output for the lowest amount of power T8 systems are needed for maximum energy savings
- Energy Retrofits
- Commercial & Retail
- Hospitality & Institutional
- New Construction

SYLVANIA QUICKTRONIC High Efficiency (QHE) energy-saving electronic T8 ISH (PLUS) 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. High Light Output:
 - Higher lumens per fixture
 - Fewer fixtures required for same light output
3. Parallel Circuitry: keeps remaining lamps lit if one or more go out.
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

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



Lamp Striation Control
High Ballast Factor

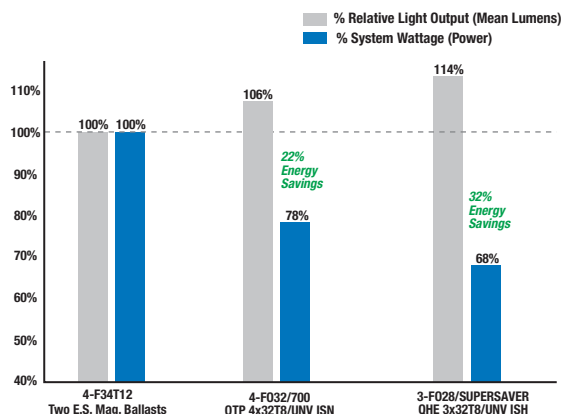


5. Lamp Striation Control (LSC):

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

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

| System Type | Input Power (W) | Initial System Lumens | System Efficacy LPW | Mean System Lumens | Relative Mean Light Output | Energy Savings |
|---------------------------------------|-----------------|-----------------------|---------------------|--------------------|----------------------------|----------------|
| 4:F34T12 - Two E.S. Magnetic Ballasts | 144 | 9330 | 65 | 7930 | Baseline | Baseline |
| 4:F032T8/700 - QTP4x32T8/UNV-ISH-SC | 112 | 9150 | 82 | 8415 | 106% | 22% |
| 3:F032/XP® - QHE3x32T8/UNV-ISH-SC | 111/109 | 10620 | 96/97 | 9985 | 126% | 23% |
| 3:F028/SS - QHE3x32T8/UNV-ISH-SC | 98/96 | 9650 | 98/101 | 9070 | 114% | 32% |



SPECIFICATION DATA

| | | |
|-----------|-------------|------|
| Catalog # | Date | Type |
| Project | Prepared by | |
| Comments | | |

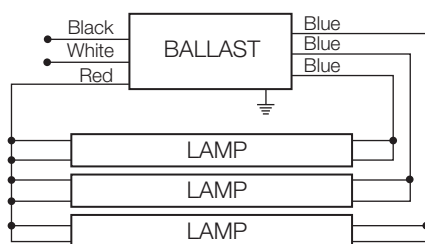
High Efficiency Universal Voltage (120-277V), Lamp Striation Control



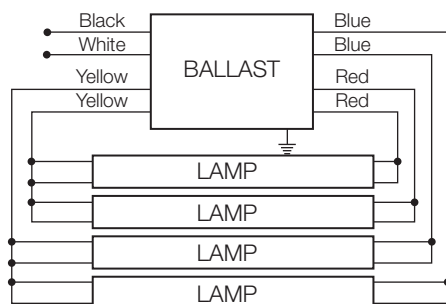
| Item Number | OSRAM SYLVANIA Description | Input Current (AMPS) | Lamp Type | Rated Lumens (lm) | No. of Lamps | Ballast Factor (BF) | System Lumens | Mean Lumens | Input Power (W) | System Efficacy (lm/W) | BEF ¹ |
|----------------|---|----------------------|-----------|-------------------|--------------|---------------------|---------------|-------------|-----------------|------------------------|------------------|
| 49875 | QHE3X32T8/UNV ISH-SC 10-Pack | 0.93/0.40 | F032/700 | 2600 | 3 | 1.18 | 9205 | 8460 | 111/109 | 83/84 | 1.08 |
| | | 0.93/0.40 | F032/XP® | 3000 | 3 | 1.18 | 10,620 | 9985 | 111/109 | 96/97 | 1.08 |
| | | 0.87/0.38 | F030SS | 2850 | 3 | 1.18 | 10,090 | 9485 | 104/103 | 97/98 | 1.15 |
| | | 0.82/0.35 | F028SS | 2725 | 3 | 1.18 | 9650 | 9070 | 98/96 | 98/101 | 1.23 |
| | | 0.72/0.31 | F025/SS | 2475 | 3 | 1.18 | 8760 | 8235 | 87/86 | 101/102 | 1.37 |
| 49922 49877 | QHE4X32T8/UNV ISH Banded Pack 10-Pack | 1.21/0.52 | F032/700 | 2600 | 4 | 1.15 | 11,960 | 10,995 | 144/141 | 83/85 | 0.82 |
| | | 1.21/0.52 | F032/XP | 3000 | 4 | 1.15 | 13,800 | 12,970 | 144/141 | 96/98 | 0.82 |
| | | 1.13/0.49 | F030SS | 2850 | 4 | 1.15 | 13,110 | 12,325 | 135/133 | 97/99 | 0.86 |
| | | 1.06/0.46 | F028SS | 2725 | 4 | 1.15 | 12,535 | 11,785 | 127/124 | 99/101 | 0.93 |
| | | 0.94/0.41 | F025/SS | 2475 | 4 | 1.15 | 11,385 | 10,700 | 112/111 | 102/103 | 1.04 |

Banded Pack Item Numbers, (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).



QUICKTRONIC 3x32



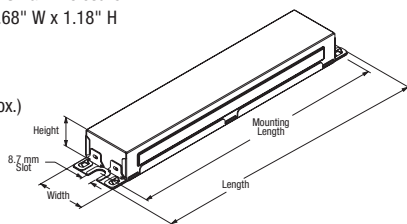
QUICKTRONIC 4x32

Dimensions "-SC" Small Enclosure:

Overall: 9.5" L x 1.68" W x 1.18" H
Mounting: 8.90"

Product Weight:
1.6 lbs each (approx.)

Wiring:
Leads only

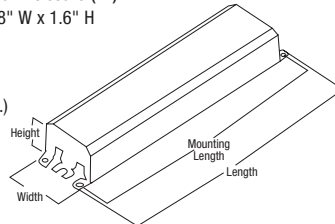


Dimensions Standard Enclosure (4L):

Overall: 9.5" L x 2.38" W x 1.6" H
Mounting: 8.90"

Product Weight:
2.8 lbs each (approx.)

Wiring:
Leads only



Item Number — 49921 QHE 3 x 32T8 / UNV ISH - SC — Case Size
QUICKTRONIC High Efficiency — Starting/Ballast Factor
Number of Lamps — Line Voltage (120-277V)
Primary Lamp Wattage

High Ballast Factor

T8

 Instant Start

High Efficiency

Performance Guide

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 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

Data based on F32T8

Starting Method: Instant Start

Ballast Factor: 1.15-1.18

Circuit Type: Parallel

Lamp Frequency: >42 kHz

Lamp CCF: Less than 1.7

Starting Temp:²

-20°F (-29°C) for OCTRON T8 lamps;

60°F (16°C) for SUPERSAVER® T8 lamps

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 Compliant³

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
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www.sylvania.com

Specifications subject to change without notice.