

# QUICKTRONIC® T8 Instant Start Universal Voltage



*High Ballast Factor*

## High Efficiency Series

QHE T8 ISH

### Lamp / Ballast Guide

#### 32W T8 - OCTRON®

- 1-lamp QHE1x32T8/UNV ISH-SC
- 2-lamp QHE2x32T8/UNV ISH-SC
- 3-lamp QHE3x32T8/UNV ISH-SC
- 4-lamp QHE4x32T8/UNV ISH

#### Also operates:

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

### Key System Features

- **High Efficiency Systems** over 90% efficient
- NEMA Premium Ballast (NPB) Program compliant
- Over 100 LPW (lumens/watt) with OCTRON SUPERSAVER® lamps
- Lowest power T8 PLUS Systems
- Universal voltage (120-277V)
- 1.15-1.20 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

### Application Information

#### SYLVANIA QUICKTRONIC High Efficiency

is ideally suited for:

- Any applications where the highest light output for the lowest amount of power T8 systems are needed for maximum energy savings
- High bay lighting
- 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
- 30-60% energy savings when compared to F34T12 magnetically ballasted systems

#### 2. High Light Output :

- Higher lumens per fixture
- Fewer fixtures required for same light output
- Ideal for high bays

#### 3. Parallel Circuitry: keeps remaining lamps lit if one or more go out.

#### 4. NEMA Premium Ballast (NPB) program compliant. The NPB program promotes the use of high efficiency T8 electronic ballasts by meeting or exceeding the Ballast Efficiency Factors (BEF) estab-

### 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 >42kHz to reduce potential interference with infrared control systems

A complete OSRAM SYLVANIA System Performance Guide showing performance characteristics for all combinations of lamps and ballasts is available upon request.



lished by the CEE (Consortium for Energy Efficiency). For additional information on this program go to: [www.cee1.org](http://www.cee1.org) or [www.nema.org](http://www.nema.org)

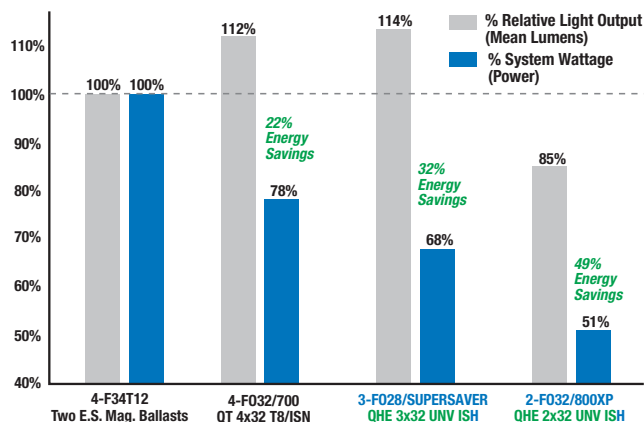
#### 5. New Banded Packaging

- Distributor-friendly for easy stocking and individual ballast sales
- Reduced waste

- Easy removable bands
- No tangled wires

SYLVANIA QUICKTRONIC High Efficiency (QHE) is also covered by our 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             | 9860                  | 89                  | 8870               | 112%                       | 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%            |
| 2:F032/XP - QHE2x32T8/UNV-ISH-SC      | 74/73           | 7200                  | 97/99               | 6770               | 85%                        | 49%            |
| 2:F028/SS - QHE2x32T8/UNV-ISH-SC      | 65/64           | 6540                  | 101/102             | 6150               | 78%                        | 55%            |



SEE THE WORLD IN A NEW LIGHT

**SYLVANIA**



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 Electronic Ballast Catalog.

### Specifications

Data based on F32T8

**Starting Method:** Instant Start  
**Ballast Factor:** 1.15-1.20  
**Circuit Type:** Parallel  
**Lamp Frequency:** >40kHz  
**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  
**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  
 NEMA 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

<sup>2</sup> Operation below 50°F (10°C) may affect light output or lamp operation – see “Low Temp. Starting” definition.

### 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](http://www.sylvania.com)

### SPECIFICATION DATA

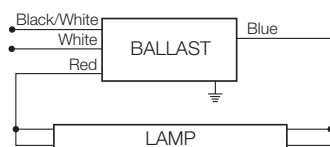
|           |             |      |
|-----------|-------------|------|
| Catalog # | Date        | Type |
| Project   | Prepared by |      |
| Comments  |             |      |

### High Efficiency Universal Voltage (120-277V)

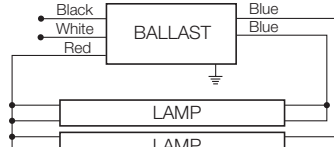


| Item Number | OSRAM SYLVANIA Description | Input Current (AMPS) | Lamp Type | Rated Lumens (lm) | No. of Lamps | Ballast Factor (BF) | System Lumens | Mean Lumens | Input Power (W) | System Efficacy (lm/W) | BEF <sup>1</sup> |
|-------------|----------------------------|----------------------|-----------|-------------------|--------------|---------------------|---------------|-------------|-----------------|------------------------|------------------|
| 49919       | QHE 1X32T8/UNV ISH-SC      | 0.32/0.14            | F032/700  | 2800              | 1            | 1.20                | 3360          | 3025        | 38              | 88                     | 3.16             |
| 49871       | Banded Pack                | 0.32/0.14            | F032/XP   | 3000              | 1            | 1.20                | 3600          | 3385        | 38              | 95                     | 3.16             |
| 49872       | 10-Pack                    | 0.30/0.13            | F030SS    | 2850              | 1            | 1.20                | 3420          | 3215        | 36              | 95                     | 3.33             |
|             | Pallet Pack                | 0.27/0.12            | F028SS    | 2725              | 1            | 1.20                | 3270          | 3075        | 33              | 99                     | 3.64             |
|             |                            | 0.26/0.12            | F025/SS   | 2475              | 1            | 1.20                | 2970          | 2790        | 30              | 99                     | 4.00             |
| 49920       | QHE 2X32T8/UNV ISH-SC      | 0.65/0.28            | F032/700  | 2800              | 2            | 1.20                | 6720          | 6050        | 74/73           | 91/92                  | 1.64             |
| 49873       | Banded Pack                | 0.65/0.28            | F032/XP   | 3000              | 2            | 1.20                | 7200          | 6770        | 74/73           | 97/99                  | 1.64             |
| 49874       | 10-Pack                    | 0.59/0.25            | F030SS    | 2850              | 2            | 1.20                | 6840          | 6430        | 70/69           | 98/99                  | 1.74             |
|             | Pallet Pack                | 0.55/0.23            | F028SS    | 2725              | 2            | 1.20                | 6540          | 6150        | 65/64           | 101/102                | 1.88             |
|             |                            | 0.50/0.22            | F025/SS   | 2475              | 2            | 1.20                | 5940          | 5585        | 58/57           | 102/104                | 2.11             |
| 49921       | QHE 3X32T8/UNV ISH-SC      | 0.93/0.40            | F032/700  | 2800              | 3            | 1.18                | 9910          | 8920        | 111/109         | 89/90                  | 1.08             |
| 49875       | Banded Pack                | 0.93/0.40            | F032/XP   | 3000              | 3            | 1.18                | 10620         | 9985        | 111/109         | 96/97                  | 1.08             |
| 49876       | 10-Pack                    | 0.87/0.38            | F030SS    | 2850              | 3            | 1.18                | 10090         | 9485        | 104/103         | 97/98                  | 1.15             |
|             | Pallet Pack                | 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       | QHE 4X32T8/UNV ISH         | 1.21/0.52            | F032/700  | 2800              | 4            | 1.15                | 12880         | 11590       | 144/141         | 89/91                  | 0.82             |
| 49877       | Banded Pack                | 1.21/0.52            | F032/XP   | 3000              | 4            | 1.15                | 13800         | 12970       | 144/141         | 96/98                  | 0.82             |
| 49878*      | 10-Pack                    | 1.13/0.49            | F030SS    | 2850              | 4            | 1.15                | 13110         | 12325       | 135/133         | 97/99                  | 0.86             |
|             | Pallet Pack                | 1.06/0.46            | F028SS    | 2725              | 4            | 1.15                | 12535         | 11785       | 127/124         | 99/101                 | 0.93             |
|             |                            | 0.94/0.41            | F025/SS   | 2475              | 4            | 1.15                | 11385         | 10700       | 112/111         | 102/103                | 1.04             |

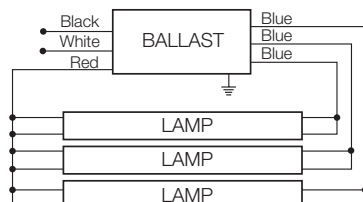
Banded Pack Item Numbers, (add “-B” to Description). Banded Pack and 10-Pack contain 10 pieces each. Pallet Pack contains 840 pieces, except Item Number 49878\* contains 500 pieces, (add “-PAL” to Description). 1: Ballast Efficiency Factor (BEF) shown = (Ballast Factor x 100) divided by Input Power (Note: calculation based on lowest wattage value).



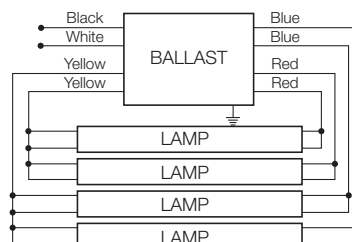
QUICKTRONIC 1x32



QUICKTRONIC 2x32



QUICKTRONIC 3x32

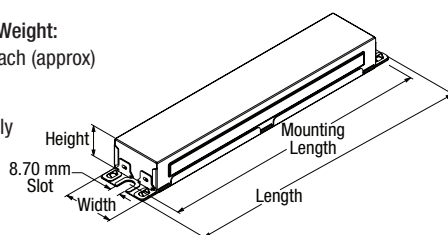


QUICKTRONIC 4x32

**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)

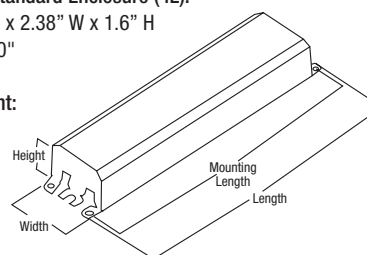
**Wiring:**  
 Leads only



**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