

# QUICKTRONIC® T8 Instant Start

UNV High Ambient Temp. Systems  
High Efficiency Series



**Lamp Striation Control**  
**High Ballast Factor**

QHE T8 ISH HT

## Lamp / Ballast Guide

### 32W T8 - OCTRON® lamps

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

### 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
- 90°C maximum case temp.
- Lamp Striation Control (LSC)
- Over 100 LPW (lumens/watt) with OCTRON SUPERSAVER® lamps
- Lowest power T8 PLUS Systems
- Universal voltage (120-277V)
- 1.18-1.20 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
- RoHS compliant
- Lead-free solder and manufacturing process

## Application Information

### 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
- High bay lighting
- Energy Retrofits
- Commercial & Retail
- Hospitality & Institutional
- New Construction

OSRAM QUICKTRONIC High Efficiency (QHE) energy-saving electronic T8 ISH (PLUS) ballasts offer several advantages:

- 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
- High Light Output:
  - Higher lumens per fixture
  - Fewer fixtures required for same light output
- Parallel Circuitry: keeps remaining lamps lit if one or more go out.
- 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.

## System Information

### QUICKTRONIC High Efficiency (QHE)

System advantages:

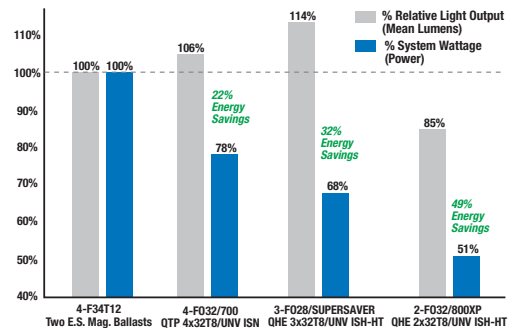
- Operate from 120V through 277V
  - Eliminates "wrong voltage" errors
  - Reduces inventory by 50%
- Utilizes Instant Start operation for
  - Highest System Efficacy
  - Low temperature starting capability
- Very low harmonic distortion (<10%)THD
- Operate at >42 kHz to reduce potential interference with infrared control systems



- High Ambient Temp: specifically designed for those applications where the ballast is subject to higher ambient temperatures, such as high bays in industrial installations.

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-HT-SC	111/109	10620	96/97	9985	126%	23%
3:F028/SS - QHE3x32T8/UNV-ISH-HT-SC	98/96	9650	98/101	9070	114%	32%
2:F032/XP - QHE2x32T8/UNV-ISH-HT-SC	74/73	7200	97/99	6770	85%	49%
2:F028/SS - QHE2x32T8/UNV-ISH-HT-SC	65/64	6540	101/102	6150	78%	55%



**SPECIFICATION DATA**

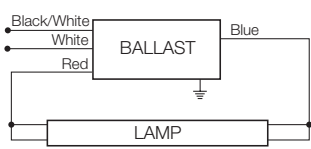
Catalog #	Date	Type
Project	Prepared by	
Comments		

**High Efficiency, Lamp Striation Control, High Ambient (120-277V)**

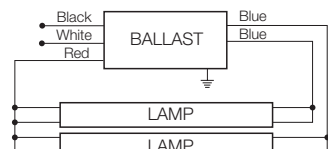


Item Number	Description	Input Current (AMPS)	Lamp Type	Rated Lumens (lm)	No. of Lamps	Ballast Factor (BF)	System Lumens	Mean Lumens	Input Power (W)	System Efficacy (lm/W)	BEF <sup>1</sup>
49496 ⚙️ 49495 ⚙️	QHE1X32T8/UNV ISH-HT-SC Banded Pack 10-Pack	0.32/0.14	F032/700	2600	1	1.20	3120	2870	38	82	3.16
		0.32/0.14	F032/XP <sup>®</sup>	3000	1	1.20	3600	3385	38	95	3.16
		0.30/0.13	F030SS	2850	1	1.20	3420	3215	36	95	3.33
		<b>0.27/0.12</b>	<b>F028SS</b>	<b>2725</b>	<b>1</b>	<b>1.20</b>	<b>3270</b>	<b>3075</b>	<b>33</b>	<b>99</b>	<b>3.64</b>
		0.26/0.12	F025/SS	2475	1	1.20	2970	2790	30	99	4.00
49498 ⚙️ 49497 ⚙️	QHE2X32T8/UNV ISH-HT-SC Banded Pack 10-Pack	0.65/0.28	F032/700	2600	2	1.20	6240	5735	74/73	84/86	1.64
		0.65/0.28	F032/XP	3000	2	1.20	7200	6770	74/73	97/99	1.64
		0.59/0.25	F030SS	2850	2	1.20	6840	6430	70/69	98/99	1.74
		<b>0.55/0.23</b>	<b>F028SS</b>	<b>2725</b>	<b>2</b>	<b>1.20</b>	<b>6540</b>	<b>6150</b>	<b>65/64</b>	<b>101/102</b>	<b>1.88</b>
		0.50/0.22	F025/SS	2475	2	1.20	5940	5585	58/57	102/104	2.11
49500 ⚙️ 49499 ⚙️	QHE3X32T8/UNV ISH-HT-SC Banded Pack 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
		<b>0.82/0.35</b>	<b>F028SS</b>	<b>2725</b>	<b>3</b>	<b>1.18</b>	<b>9650</b>	<b>9070</b>	<b>98/96</b>	<b>98/101</b>	<b>1.23</b>
		0.72/0.31	F025/SS	2475	3	1.18	8760	8235	87/86	101/102	1.37

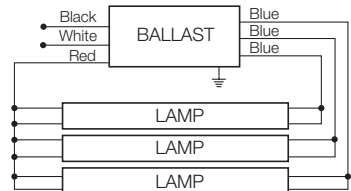
Banded Pack Item Numbers, (add "-B" to Description). Banded Pack and 10-Pack contain 10 pieces each.  
<sup>1</sup> Ballast Efficiency Factor (BEF) shown = (Ballast Factor x 100) divided by Input Power (Note: calculation based on lowest wattage value).  
 ⚙️ Preliminary specifications. Please contact OSRAM for additional information.



**QUICKTRONIC 1x32**



**QUICKTRONIC 2x32**

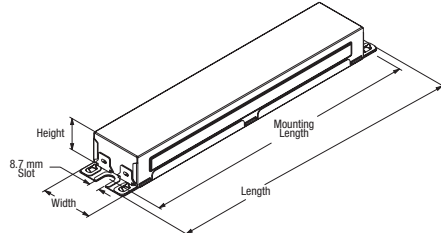


**QUICKTRONIC 3x32**

**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



Item Number ————— **49500 QHE 3 x 32T8 / UNV ISH - HT - SC** ————— Case Size  
 QUICKTRONIC High Efficiency ————— High Case Temp. Rating  
 Number of Lamps ————— Starting/Ballast Factor  
 Primary Lamp Wattage ————— Line Voltage (120-277V)

**High Ballast Factor**

**T8 Instant Start**

**High Efficiency**

**Performance Guide**

Data based upon OCTRON<sup>®</sup> lamps shown. QUICKTRONIC<sup>®</sup> 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<sup>®</sup> & U-Bend equiv-alent) T8 lamps.

**Specifications**

Data based on F32T8

- Starting Method:** Instant Start
- Ballast Factor:** 1.18-1.20
- 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<sup>®</sup> 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
- High Ambient Applications:** 90°C Max. Case Temp. (3 yr. warranty)
- Standard Ambient Applications:** 70°C Max. Case Temp. (5 yr. warranty)
- FCC 47CFR Part 18 Non-Consumer
- Class A Sound Rating
- RoHS Compliant<sup>3</sup>
- 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

- Operation below 50°F (10°C) may affect light output or lamp operation – see "Low Temp. Starting" definition.
- Complies with European Union Restriction of Hazardous Substances Directive (Directive EC 2002/95)

**System Life / Warranty**

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

Products distributed by LEDVANCE LLC  
 For Customer Service contact 1-800-LIGHTBULB

Specifications subject to change without notice.

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**QHE T8 ISH HT**