

QUICKTRONIC® T8 Instant Start UNV High Ambient Temp. Systems

High Efficiency Series

QHE T8 ISH HT

Lamp / Ballast Guide

32W T8 - OCTRON® lamps
1-lamp QHE1x32T8/UNV ISH-SC
2-lamp QHE2x32T8/UNV ISH-SC
3-lamp QHE3x32T8/UNV ISH-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
- NEMA Premium Electronic Ballast Program compliant
- 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

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
- **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:

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



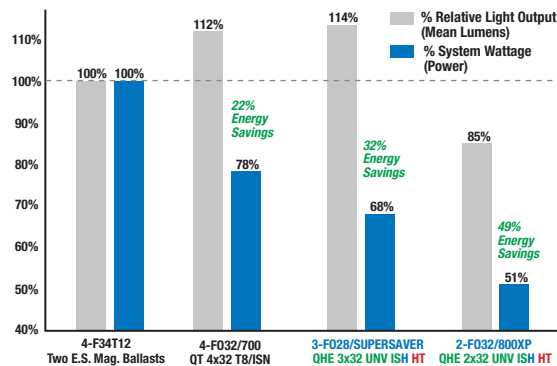
Lamp Striation Control
High Ballast Factor



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

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	9860	89	8870	112%	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)

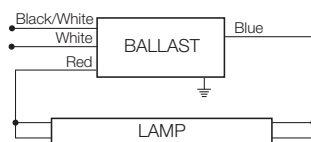


Item Number	OSRAM SYLVANIA Description	Input Current (AMPS)	Lamp Type	Rated Lumens (lm)	No. of Lamps	Ballast Factor (BF)	System Lumens	Mean Lumens	Input Power (W)	System Efficacy (lm/W)	BEF ¹
49496 ⚡	QHE 1X32T8/UNV ISH-HT-SC Banded Pack	0.32/0.14	F032/700	2800	1	1.20	3360	3025	38	88	3.16
49495 ⚡	10-Pack	0.32/0.14	F032/XP	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
		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
49498 ⚡	QHE 2X32T8/UNV ISH-HT-SC Banded Pack	0.65/0.28	F032/700	2800	2	1.20	6720	6050	74/73	91/92	1.64
49497 ⚡	10-Pack	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
		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
49500 ⚡	QHE 3X32T8/UNV ISH-HT-SC Banded Pack	0.93/0.40	F032/700	2800	3	1.18	9910	8920	111/109	89/90	1.08
49499 ⚡	10-Pack	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

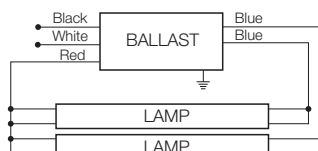
Banded Pack Item Numbers, (add "-B" to Description). Banded Pack and 10-Pack contain 10 pieces each.

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

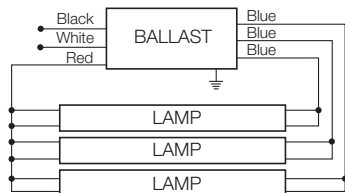
⚡ Preliminary data. Check with OSRAM SYLVANIA for detailed specifications.



QUICKTRONIC 1x32



QUICKTRONIC 2x32



QUICKTRONIC 3x32

Dimensions "-SC" Small Enclosure:

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

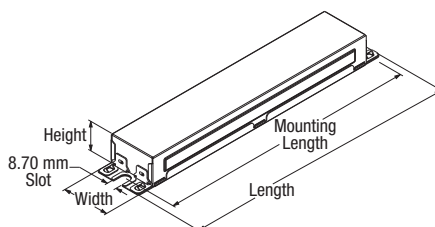
Mounting: 8.90"

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 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: 1.18-1.20

Circuit Type: Parallel

Lamp Frequency: >40kHz

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

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 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.