

QUICKTRONIC® T8 Instant Start

Universal Voltage Systems

High Efficiency Series



Lamp Striation Control
Low Ballast Factor

QHE T8 ISL

Lamp / Ballast Guide

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

Also operates:

- FBO32, FBO31, F025, FBO24, F017, FBO16, F030/SS (30W), FBO30/SS (30W), FBO29/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
- Lamp Striation Control (LSC)
- Over 100 LPW (lumens/watt) with OCTRON SUPERSAVER® lamps
- Lowest power T8 I.S. Systems
- Universal voltage (120-277)
- 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
- 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 lowest power T8 systems are needed for maximum energy savings
- Energy Retrofits
- Commercial & Retail
- Hospitality & Institutional
- New Construction

OSRAM 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



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

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

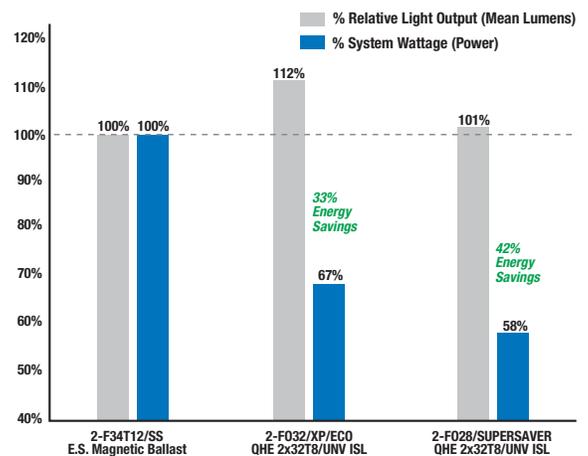
System Information

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

System Type (2-lamp)	Input Power (W)	Initial System Lumens	System Efficacy LPW	Mean System Lumens	Relative Mean Light Output	Energy Savings
F34T12 - E.S. Magnetic Ballast	72	4660	65	3960	Baseline	Baseline
F032/XP® - QHE2x32T8/UNV ISL-SC	48	4680	98	4440	112%	33%
F028/SS - QHE2x32T8/UNV ISL-SC	42	4250	101	3995	101%	42%



SPECIFICATION DATA

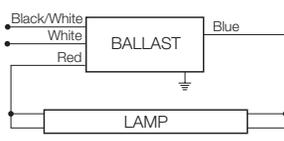
Catalog #	Date	Type
Project	Prepared by	
Comments		

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

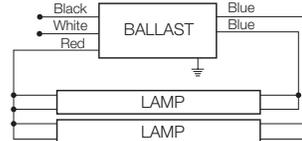


Item Number	Description	Input Current (AMPS)	Lamp Type	Rated Lumens (lm)	No. of Lamps	Ballast Factor (BF)	System Lumens	Mean Lumens	Input Power (W)	System Efficacy (lm/W)	BEF ¹
49837 49861	QHE1X32T8/UNV ISL-SC Banded Pack 10-Pack	0.21/0.09	F032/700	2600	1	0.78	2030	1865	25	81	3.12
		0.21/0.09	F032/XP [®]	3000	1	0.78	2340	2200	25	94	3.12
		0.20/0.09	F030/SS	2850	1	0.78	2225	2090	24	93	3.25
		0.19/0.08	F028/SS	2725	1	0.78	2125	2000	22	97	3.55
		0.17/0.08	F025/SS	2475	1	0.78	1930	1815	20	97	3.90
49838 49863	QHE2X32T8/UNV ISL-SC Banded Pack 10-Pack	0.41/0.18	F032/700	2600	2	0.78	4055	3730	48	84	1.63
		0.41/0.18	F032/XP	3000	2	0.78	4680	4400	48	98	1.63
		0.38/0.16	F030/SS	2850	2	0.78	4445	4180	45	99	1.73
		0.35/0.15	F028/SS	2725	2	0.78	4250	3995	42	101	1.86
		0.32/0.14	F025/SS	2475	2	0.78	3860	3630	38	102	2.05
49839 49865	QHE3X32T8/UNV ISL-SC Banded Pack 10-Pack	0.61/0.27	F032/700	2600	3	0.78	6085	5595	73/72	83/85	1.08
		0.61/0.27	F032/XP	3000	3	0.78	7020	6600	73/72	96/98	1.08
		0.58/0.25	F030/SS	2850	3	0.78	6670	6270	68	98	1.15
		0.53/0.23	F028/SS	2725	3	0.78	6380	5995	63	101	1.24
		0.48/0.21	F025/SS	2475	3	0.78	5790	5445	57	102	1.37
49840 49867	QHE4X32T8/UNV ISL-SC Banded Pack 10-Pack	0.80/0.35	F032/700	2600	4	0.78	8110	7455	95	85	0.82
		0.80/0.35	F032/XP	3000	4	0.78	9360	8800	95	99	0.82
		0.75/0.32	F030/SS	2850	4	0.78	8890	8360	89	100	0.88
		0.71/0.31	F028/SS	2725	4	0.78	8500	7990	84	101	0.93
		0.62/0.27	F025/SS	2475	4	0.78	7720	7260	76/75	102/103	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).

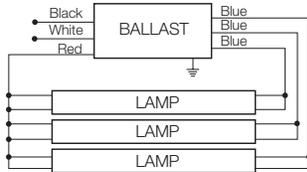


QUICKTRONIC 1x32



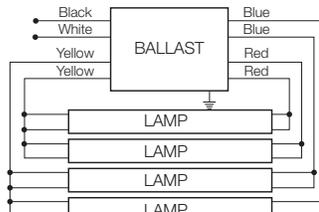
Note: For one lamp application, cap any blue lead. Insulate to 600 volts.

QUICKTRONIC 2x32



Note: For two lamp application, cap any blue lead. For one lamp application, cap any two blue leads. Insulate to 600 volts.

QUICKTRONIC 3x32



Note: For three lamp application, cap any unused blue lead. For two lamp application, cap two blue leads individually. For one lamp application, cap two blue leads, one red and one yellow lead individually. Insulate to 600 volts.

QUICKTRONIC 4x32

Dimensions:

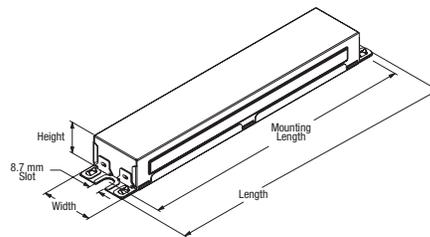
Overall: 9.5" L x 1.68" W x 1.18" H
 Mounting: 8.90"

Product Weight:

1.6 lbs each (approx)

Wiring:

Leads only (no connectors provided)



Item Number	49838	QHE 2 x 32T8 / UNV ISL - SC	Case Size
QUICKTRONIC PROFESSIONAL			Starting/Ballast Factor
Number of Lamps			Line Voltage (120-277V)
			Primary Lamp Wattage

Low Ballast Factor

T8 Instant Start

High Efficiency

Performance Guide

Data based upon 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.

QHE T8 ISL

Specifications

Data based on F32T8

- Starting Method: Instant Start
- Ballast Factor: 0.78
- 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
- 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 Compliant³
- 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.

Products distributed by
LEDVANCE LLC

For Customer Service contact
 1-800-LIGHTBULB

Specifications subject to change without notice.

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