QUICKTRONIC® T8 Instant Start

Universal Voltage Systems **High Efficiency Series**



Lamp Striation Control Normal Ballast Factor

Lamp / Ballast Guide

32W T8 - fluorescent lamps 1-lamp QHE 1x32T8 UNV ISN SC 2-lamp QHE 2x32T8 UNV ISN SC 3-lamp QHE 3x32T8 UNV ISN SC 4-lamp QHE 4x32T8 UNV ISN SC

Also operates:

N S

80 H

FB32, FB31, F25, FB24, F17, FB16, F30/SS (30W), FB30/SS (30W), FB29/SS (29W), F28/SS (28W) & F25/SS (25W)

F40T8 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 energy-saving T8 lamps
- Lowest power T8 I.S. Systems
- Universal voltage (120-277V)
- 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</p>
- 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 Retrofit
- Commercial & Retail
- · Hospitality & Institutional
- New Construction

Lamp Striation Control (LSC)

· General lighting applications where energy saving T8 lamps may striate, particularly for the F25 energy saving T8 lamps.

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 comprolsing 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
- 4. New Banded Packaging
 - · Distributor-friendly for easy stocking and individual ballast sales
 - · Reduced waste
 - · Easy removable bands
 - · No tangled wires

System Information

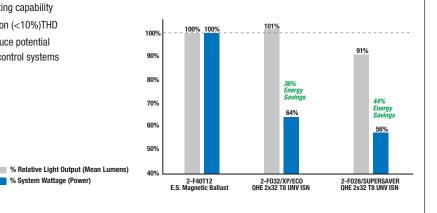
QUICKTRONIC High Efficiency (QHE) System advantages:

- · 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

% System Wattage (Power)

- 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 Efficac LPW	Mean System Lumens	Relative Mean Light Output	Energy Savings
F40T12 – E.S. Magnetic Ballast	86	5795	67	4930	Baseline	Baseline
F34T12 – E.S. Magnetic Ballast	72	4660	65	3960	80%	16%
F032/XP [®] -QHE 2x32T8 UNV ISN SC F028/SS - QHE 2x32T8 UNV ISN SC	55 48	5280 4800	96 100	4965 4510	101% 91%	36% 44%





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

SPECIFICATION DATA

Project

Comments

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

Prepared by

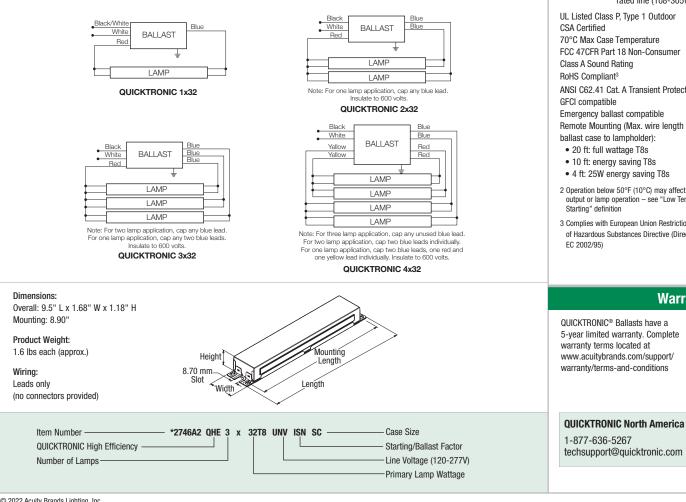
Date

Туре

Item Number (NAED)	Description	Input Current (AMPS)	Lamp Type	Rated Lumens (Im)	No. of Lamps	Ballast Factor (BF)	System Lumens	Mean Lumens	Input Power (W)	System Efficac (Im/W)	BEF ¹
*2746A0 <i>(49968)</i> *274667 <i>(49851)</i>	OHE 1X32T8 UNV ISN SC B J10 - Banded Pack J10 - 10-Pack	0.25/0.11 0.25/0.11 0.22/0.09 0.21/0.09 0.19/0.09	F32/700 F32/XP® F30/SS F28/SS F25/SS	2600 3000 2850 2725 2475	1 1 1 1	0.88 0.88 0.88 0.88 0.88	2290 2640 2510 2400 2175	2105 2480 2360 2255 2045	28 28 26 25 22	82 94 97 96 99	3.14 3.14 3.38 3.52 4.00
*2746A1 <i>(49969)</i> *27466C <i>(49853)</i>	QHE 2X32T8 UNV ISN SC B J10 - Banded Pack J10 - 10-Pack	0.47/0.20 0.47/0.20 0.44/0.19 0.40/0.18 0.36/0.16	F32/700 F32/XP F30/SS F28/SS F25/SS	2600 3000 2850 2725 2475	2 2 2 2 2 2	0.88 0.88 0.88 0.88 0.88	4575 5280 5015 4800 4355	4205 4965 4715 4510 4095	55 55 52 48 43	83 96 96 100 101	1.60 1.60 1.69 1.83 2.05
*2746A2 <i>(49970)</i> *27466M <i>(49855)</i>	QHE 3X32T8 UNV ISN SC B J10 - Banded Pack J10 - 10-Pack	0.69/0.30 0.69/0.30 0.66/0.28 0.61/0.26 0.55/0.23	F32/700 F32/XP F30/SS F28/SS F25/SS	2600 3000 2850 2725 2475	3 3 3 3 3	0.88 0.88 0.88 0.88 0.88	6865 7920 7525 7195 6530	6310 7445 7075 6760 6140	83/82 83/82 78/77 72 65/64	83/84 95/97 96/98 100 101/102	1.07 1.07 1.14 1.22 1.38
*2746A3 <i>(49971)</i> *27466V <i>(49857)</i>	QHE 4X32T8 UNV ISN SC B J10 - Banded Pack J10 - 10-Pack	0.91/0.39 0.91/0.39 0.86/0.37 0.80/0.35 0.71/0.30	F32/700 F32/XP F30/SS F28/SS F25/SS	2600 3000 2850 2725 2475	4 4 4 4 4	0.88 0.88 0.88 0.88 0.88	9150 10560 10030 9590 8710	8415 9925 9430 9015 8190	108/107 108/107 102/101 95 85	85/86 98/99 98/99 101 102	0.82 0.82 0.87 0.93 1.04

NAED in parentheses is provided as a cross reference for the new item number.

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



Normal Ballast Factor

18 Instant Start

High Efficiency

Performance Guide

QUICKTRONIC® QHE Instant Start ballasts are compatible with other lamp manufacturers equivalent lamp types that meet ANSI specifications.

QHE Instant Start ballasts will operate F17, F25 and F32 (and energy-saving & U-Bend equivalent) T8 lamps.

Specification

QHE

– 8

NSI

Starting Method: Instant Start Ballast Factor: 0.88 Circuit Type: Parallel Lamp Frequency:> 42kHz Lamp CCF: Less than 1.7 Starting Temp:² -20°F (-29°C) for T8 lamps; 60°F (16°C) for energy-saving 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 70°C Max Case Temperature FCC 47CFR Part 18 Non-Consumer ANSI C62.41 Cat. A Transient Protection Emergency ballast compatible Remote Mounting (Max. wire length from • 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 3 Complies with European Union Restriction of Hazardous Substances Directive (Directive

Warranty

QUICKTRONIC® Ballasts have a 5-year limited warranty. Complete warranty terms located at www.acuitybrands.com/support/ warranty/terms-and-conditions

techsupport@quicktronic.com

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