QUICKTRONIC® T8 Instant Start

Universal Voltage Systems

High Efficiency Series

RoHS compliant

Lamp Striation Control
High Ballast Factor

QHE T8 ISH

Lamp / Ballast Guide

32W T8 – fluorescent lamps
4-lamp QHE 4x32T8 UNV ISH

Also operates:
FB32, FB31, F30/SS (30W), FB30/SS (30W), FB29/SS (29W), F28/SS (28W) & F25/SS (25W)

Key System Features

- **High Efficiency Systems** over 90% efficient
- Lamp Striation Control (LSC)
- Over 100 LPW (lumens/watt) with energy-saving lamps
- Lowest power T8 PLUS Systems
- Universal voltage (120-277V)
- 1.15-1.18 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

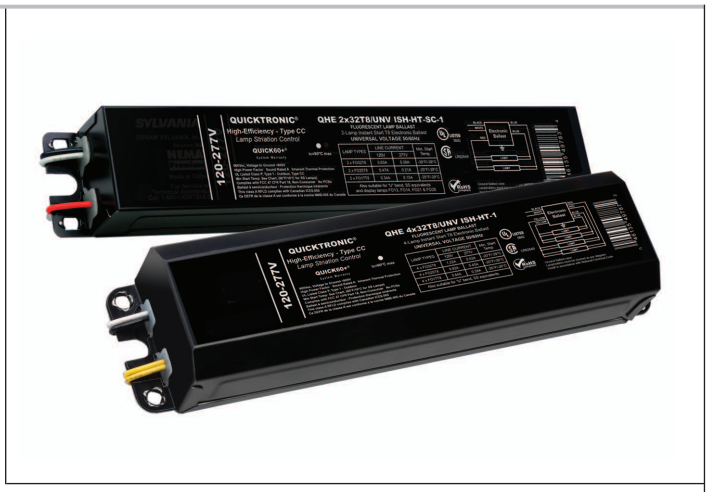
Application Information

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
- Energy Retrofits
- Commercial
- Retail
- Hospitality
- Institutional
- New Construction

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
   - **Maximum energy savings** when compared to F40T12 magnetically ballasted systems
2. **High Light Output:**
   - Higher lumens per fixture
   - Fewer fixtures required for same light output
3. **Parallel Circuitry:** keeps remaining lamps lit if one or more go out.
4. **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.



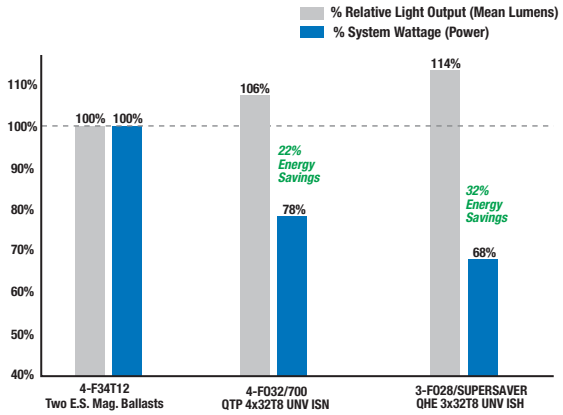
These ballasts are also RoHS compliant and feature lead-free solder and manufacturing process.

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

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:FO32T8/700 - QTP 4x32T8 UNV ISN SC	112	9150	82	8415	106%	22%
3:FO32/XP® - QHE 3x32T8 UNV ISH SC	111/109	10620	96/97	9985	126%	23%
3:FO28/SS - QHE 3x32T8 UNV ISH SC	98/96	9650	98/101	9070	114%	32%



SPECIFICATION DATA

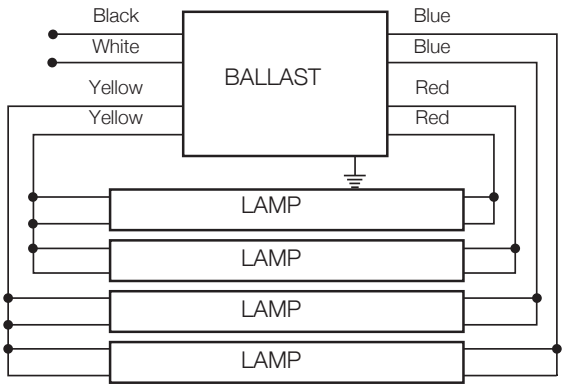
Catalog #	Date	Type
Project	Prepared by	
Comments		

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

RoHS compliant

Item Number *(NAED)*	Description	Input Current (AMPS)	Lamp Type	Rated Lumens (lm)	No. of Lamps	Ballast Factor (BF)	System Lumens	Mean Lumens	Input Power (W)	System Efficac (lm/W)	BEF[1]
*27466T *(51347)*	QHE 4X32T8 UNV ISH SC *J10 - 10-Pack*	1.21/0.52	F32/700	2600	4	1.15	11,960	10,995	144/141	83/85	0.82
		1.21/0.52	F32/XP	3000	4	1.15	13,800	12,970	144/141	96/98	0.82
		1.13/0.49	F30SS	2850	4	1.15	13,110	12,325	135/133	97/99	0.86
		1.06/0.46	**F28SS**	**2725**	**4**	**1.15**	**12,535**	**11,785**	**127/124**	**99/101**	**0.93**
		0.94/0.41	F25/SS	2475	4	1.15	11,385	10,700	112/111	102/103	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).

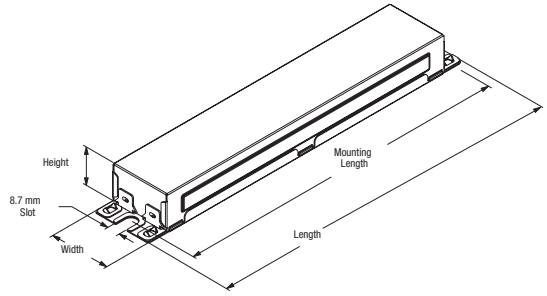


QUICKTRONIC 4x32

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.)

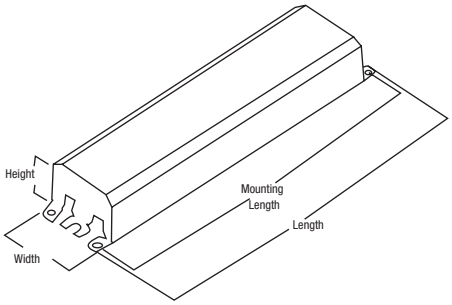
Wiring:
Leads only



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 — *27466T QHE 4 x 32T8 UNV ISH SC — Case Size
QUICKTRONIC High Efficiency — Starting/Ballast Factor
Number of Lamps — Line Voltage (120-277V)
Primary Lamp Wattage

High Ballast Factor

T8 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 F32 (and energy-saving & U-Bend equivalent) T8 lamps.

QHE T8 ISH

Specification

Data based on F32T8

Starting Method: Instant Start
Ballast Factor: 1.15-1.18
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
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 Compliant[3]
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)

Warranty

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

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