

# QUICKTRONIC® T8 59W

Instant Start UNV Systems  
High Efficiency Series

**Low, Normal & High  
Ballast Factor Models**

**QHE T8 8FT**

## Lamp / Ballast Guide

59W T8 8-Foot – fluorescent lamps  
2-lamp QHE 2x59T8 UNV ISL SC EB  
2-lamp QHE 2x59T8 UNV ISN SC EB  
QHE 2x59T8 ISL SC & QHE 2x59T8  
ISN SC operates 1 or 2: F96T8 (59W),  
F96T8/ES (54W & 50W), F72T8 &  
F48T8

## Key System Features

- Universal voltage (120-277V)
- High Efficiency Systems over 90% efficient
- Over 100 LPW (lumens/watt) with lamps
- Lowest power, full light output 59W T8 Systems
- QHE Ballasts also meet the most demanding Utility Rebate standards
- 30% more light output than standard T8 systems
- Parallel circuitry is utilized to keep the remaining lamps lit if one or more should fail
- Min. Starting Temp:
  - -20°F (-29°C) for T8 lamps
  - 60°F (16°C) for energy-saving T8 lamps
- RoHS compliant
- Lead-free solder and manufacturing process

## Application Information

### QUICKTRONIC High Efficiency ballasts

are ideally suited for:

- Energy retrofits
- Commercial & Retail
- Hospitality & Institutional
- New construction

### QUICKTRONIC High Efficiency (QHE)

energy savings electronic T8 ballasts save up to 6% wattage over standard electronic ballasts without compromising light output or lamp life. The added energy savings also provides for a quicker payback.

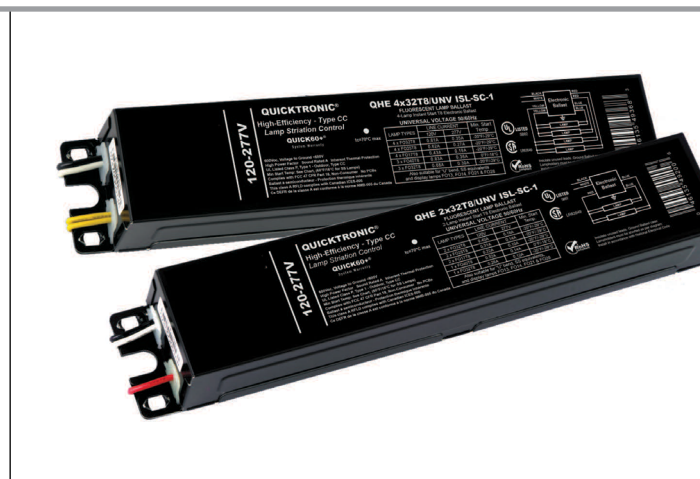
### QUICKTRONIC High Efficiency (QHE)

59IS ballasts operate F96 T8 lamps with maximum efficacy and high lumen output and provides 30%-50% energy savings when compared to F96T12 magnetic systems.

New small can enclosure on select models allows for low profile fixture design and application.

QHE Ballasts also meet the most demanding utility rebate standards.

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



## System Information

### QUICKTRONIC High Efficiency (QHE)

59IS ballasts operate from 120V through 277V, eliminating “wrong voltage” wiring errors and reducing the number of models in inventory by 50%.

### QUICKTRONIC High Efficiency (QHE)

ballasts use instant start operation to provide the highest system efficacy and to assure low temperature starting capability.

Instant start also provides for maximum remote wiring distances.

System Type	Input Power (W)	Mean System Lumens	Mean RLO	Initial System LPW	Energy Savings
<b>System Type QHE-ISL (2-lamps)</b>					
Magnetic Ballast & F96T12/SS	125	8209	Baseline	75	Baseline
QTP 2x59 ISN & F96T8/54W/XP®/SS	102	9430	115%	98	18%
QHE 2x59 ISL & F96T8/XP (59W)	94	8830	108%	100	25%
QHE 2x59 ISL & F96T8/54W/XP/SS	85	8250	100%	103	32%
QHE 2x59 ISL & F96T8/50W/XP/SS	78	7615	93%	104	38%
<b>System Type QHE-ISN (2-lamps)</b>					
Magnetic Ballast & F96T12	160	9984	Baseline	71	Baseline
Magnetic Ballast & F96T12/SS	125	8209	82%	75	22%
QTP 2x59 ISN & F96T8/XP (59W)	110	10,090	101%	98	31%
QHE 2x59 ISN & F96T8/XP (59W)	107	10,090	101%	100	33%
QHE 2x59 ISN & F96T8/54W/XP/SS	98	9430	94%	102	39%
QHE 2x59 ISN & F96T8/50W/XP/SS	89	8630	86%	103	44%

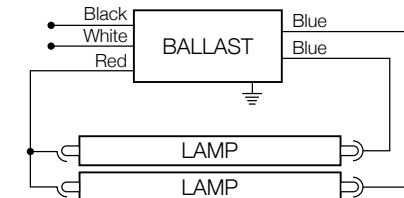
**SPECIFICATION DATA**

Catalog #	Date	Type
Project	Prepared by	
Comments		

**High Efficiency Electronic T8 Fluorescent Systems (Low, Normal & High BF)**

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 Efficacy (lm/W)	BEF <sup>1</sup>
<b>LOW BALLAST FACTOR</b>											
2828XF (49869)	QHE 2x59T8 UNV ISL SC EB	0.80/0.34	F96T8 (59W)	6100	2	0.77	9395	8830	95/94	99/100	0.82
		0.73/0.31	F96T8/54W	5700	2	0.77	8780	8250	87/85	101/103	0.91
		0.67/0.29	F96T8/50W	5400	2	0.75	8100	7615	79/78	103/104	0.96
		0.62/0.27	F72T8	4650	2	0.79	7345	6905	74/73	99/101	1.08
		0.42/0.19	F48T8	2850	2	0.80	4560	4285	50	91	1.60
<b>NORMAL BALLAST FACTOR</b>											
2828XG (49859)	QHE 2x59T8 UNV ISN SC EB	0.92/0.40	F96T8 (59W)	6100	2	0.88	10,735	10,090	109/107	98/100	0.82
		0.84/0.36	F96T8/54W	5700	2	0.88	10,030	9430	99/98	101/102	0.90
		0.76/0.32	F96T8/50W	5400	2	0.85	9180	8630	90/89	102/103	0.96
		0.71/0.31	F72T8	4650	2	0.90	8370	7870	84/83	100/101	1.08
		0.47/0.22	F48T8	2850	2	0.90	5130	4820	56	92	1.61

NAED in parentheses is provided as a cross reference for the new item number.  
 F96T8/ES (55W) has been re-rated to F96/54W/ES.  
 1 Ballast Efficiency Factor (BEF) shown = (Ballast Factor x 100) divided by Input Power (Note: calculation based on lowest wattage value).



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

Note: One lamp operation is possible for QHE 2x59 ISL & ISN models only. Cap off any unused blue lead (insulate).  
**QUICKTRONIC 2x59**

**Dimensions Standard Enclosure:**

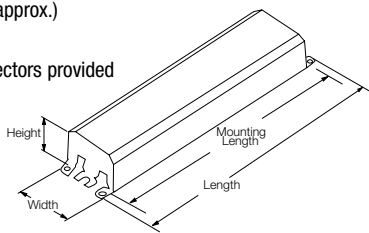
Overall: 9.5" L x 2.38" W x 1.6" H  
 Mounting: 8.90"

**Packaging:**

Weight: 2.8 lbs ea. (approx.)

**Wiring:**

Leads only, no connectors provided

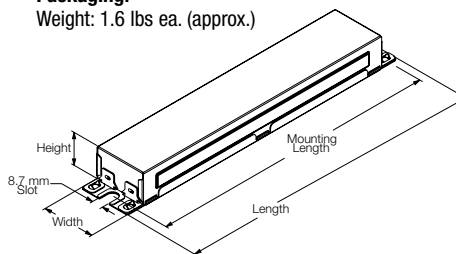


**Dimensions "SC" Small Enclosure:**

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

**Packaging:**

Weight: 1.6 lbs ea. (approx.)



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

Complete performance data is available in the QUICKSYSTEMS section of the Ballast Technology & Specification Guide.

**Specification**

Data based on F32T8

- Starting Method: Instant Start
- Ballast Factor: 0.77/0.88/1.15 (see table)
- Circuit Type: Parallel
- Lamp Frequency:>42 kHz
- Lamp CCF: Less than 1.7
- Starting Temp:2
- 0°F (-18°C) for T8 lamps
- 60°F (16°C) for T8 energy-saving lamps
- Input Frequency: 50/60 Hz
- Low THD: <10%
- Power Factor: >98%
- Voltage Range: ±10% of 120-277V rated line (108-305V)
- 70°C Max Case Temperature
- UL Listed Class P, Type 1 Outdoor
- CSA Certified
- Meets 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)

**Warranty**

QUICKTRONIC® Ballasts have a 5-year limited warranty. Complete warranty terms located at [www.acuitybrands.com/support/warranty/terms-and-conditions](http://www.acuitybrands.com/support/warranty/terms-and-conditions)

Item Number	*2828XG	QHE	2	x	59T8	UNV	ISN	SC	EB	Electrical Ballast
QUICKTRONIC High Efficiency										Starting/Ballast Factor
Number of Lamps										Low Power System
Primary Lamp Wattage										Line Voltage (120-277V)