

# 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 OCTRON lamps  
2-lamp QHE2x59T8/UNV-ISL-SC  
2-lamp QHE2x59T8/UNV-ISN-SC  
2-lamp QHE2x59T8/UNV-ISH

QHE2x59T8-ISL-SC &  
QHE2x59T8-ISN-SC operates 1 or 2:  
F096T8 (59W), F096T8/SS (54W & 50W),  
F072T8 & F048T8

QHE2x59T8-ISH operates 2 lamps only:  
F096T8 (59W), F096T8/SS (54W & 50W),  
F072T8 & F048T8

### Key System Features

- Universal voltage (120-277V)
- **High Efficiency Systems** over 90% efficient
- Over 100 LPW (lumens/watt) with OCTRON® 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:
  - 0°F (-18°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 OCTRON® F096 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.



**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)	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
QTP2x59-ISN & F096T8/54W/XP®/SS	102	9430	115%	98	18%
QHE2x59-ISL & F096T8/XP (59W)	94	8830	108%	100	25%
QHE2x59-ISL & F096T8/54W/XP/SS	85	8250	100%	103	32%
QHE2x59-ISL & F096T8/50W/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%
QTP2x59-ISN & F096T8/XP (59W)	110	10,090	101%	98	31%
QHE2x59-ISN & F096T8/XP (59W)	107	10,090	101%	100	33%
QHE2x59-ISN & F096T8/54W/XP/SS	98	9430	94%	102	39%
QHE2x59-ISN & F096T8/50W/XP/SS	89	8630	86%	103	44%
<b>System Type QHE-ISH (2-lamps)</b>					
Magnetic Ballast & F96T12CW/HO	240	13,235	Baseline	68	Baseline
Magnetic Ballast & F96T12CW/HO/SS	210	11,923	90%	70	13%
Electronic Ballast & F96T12CW/HO/SS	170	11,405	86%	83	29%
Electronic Ballast & F96T8HO	160	12,989	98%	90	33%
QHE2x59T8/UNV-ISH & F096T8/XP (59W)	141	13,190	100%	100	41%
QHE2x59T8/UNV-ISH & F096T8/54W/XP/SS	130	12,215	92%	100	46%
QHE2x59T8/UNV-ISH & F096T8/50W/XP/SS	118	11,165	84%	101	51%

\*Data based on 277V input volts

**SPECIFICATION DATA**

**Low, Normal, High BF**

**59 T8 Instant Start**

**High Efficiency**

**Performance Guide**

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



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 <sup>1</sup>
<b>LOW BALLAST FACTOR</b>											
49869	QHE2x59T8/UNV-ISL-SC 10-Pack	0.80/0.34	F096T8/700 (59W)	5700	2	0.77	8780	7900	95/94	92/93	0.82
		0.80/0.34	F096T8/XP® (59W)	6100	2	0.77	9395	8830	95/94	99/100	0.82
		<b>0.73/0.31</b>	<b>F096T8/54W/XP/SS</b>	<b>5700</b>	<b>2</b>	<b>0.77</b>	<b>8780</b>	<b>8250</b>	<b>87/85</b>	<b>101/103</b>	<b>0.91</b>
		<b>0.67/0.29</b>	<b>F096T8/50W/XP/SS</b>	<b>5400</b>	<b>2</b>	<b>0.75</b>	<b>8100</b>	<b>7615</b>	<b>79/78</b>	<b>103/104</b>	<b>0.96</b>
		0.62/0.27	F072T8/XP	4650	2	0.79	7345	6905	74/73	99/101	1.08
		0.42/0.19	F048T8/XP	2850	2	0.80	4560	4285	50	91	1.60
<b>NORMAL BALLAST FACTOR</b>											
50237 49859	QHE2x59T8/UNV-ISN-SC Banded Pack 10-Pack	0.92/0.40	F096T8/700 (59W)	5700	2	0.88	10,030	9030	109/107	92/94	0.82
		0.92/0.40	F096T8/XP (59W)	6100	2	0.88	10,735	10,090	109/107	98/100	0.82
		<b>0.84/0.36</b>	<b>F096T8/54W/XP/SS</b>	<b>5700</b>	<b>2</b>	<b>0.88</b>	<b>10,030</b>	<b>9430</b>	<b>99/98</b>	<b>101/102</b>	<b>0.90</b>
		<b>0.76/0.32</b>	<b>F096T8/50W/XP/SS</b>	<b>5400</b>	<b>2</b>	<b>0.85</b>	<b>9180</b>	<b>8630</b>	<b>90/89</b>	<b>102/103</b>	<b>0.96</b>
		0.71/0.31	F072T8/XP	4650	2	0.90	8370	7870	84/83	100/101	1.08
		0.47/0.22	F048T8/XP	2850	2	0.90	5130	4820	56	92	1.61
<b>HIGH BALLAST FACTOR</b>											
49879	QHE2x59T8/UNV-ISH 10-Pack	1.20/0.52	F096T8/700 (59W)	5700	2	1.15	13,110	11,800	144/141	91/93	0.82
		1.20/0.52	F096T8/XP (59W)	6100	2	1.15	14,030	13,190	144/141	97/100	0.82
		<b>1.10/0.47</b>	<b>F096T8/54W/XP/SS</b>	<b>5700</b>	<b>2</b>	<b>1.14</b>	<b>12,995</b>	<b>12,215</b>	<b>131/130</b>	<b>99/100</b>	<b>0.88</b>
		<b>1.01/0.43</b>	<b>F096T8/50W/XP/SS</b>	<b>5400</b>	<b>2</b>	<b>1.10</b>	<b>11,880</b>	<b>11,165</b>	<b>119/118</b>	<b>100/101</b>	<b>0.93</b>
		0.91/0.40	F072T8/XP	4650	2	1.15	10,695	10,055	108	99	1.06
		0.62/0.28	F048T8/XP	2850	2	1.18	6725	6320	74	91	1.59

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.

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

**Specifications**

Data based on F32T8

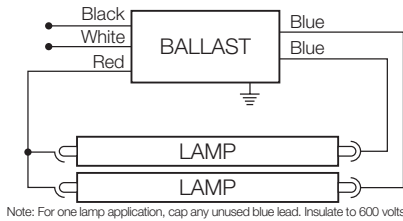
**Starting Method:** Instant Start  
**Ballast Factor:** 0.77/0.88/1.15 (see table)  
**Circuit Type:** Parallel  
**Lamp Frequency:** >42 kHz  
**Lamp CCF:** Less than 1.7  
**Starting Temp:<sup>2</sup>**  
 0°F (-18°C) for OCTRON 96T8 lamps  
 60°F (16°C) for SUPERSAVER® T8 lamps  
**Input Frequency:** 50/60 Hz  
**Low THD:** <10%  
**Power Factor:** >98%  
**Voltage Range:** ±10% of 120-277V  
 rated line (108-305V)  
 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 Compliant<sup>3</sup>  
 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  
<sup>2</sup> Operation below 50°F (10°C) may affect light output or lamp operation – see "Low Temp. Starting" definition.  
<sup>3</sup> Complies with European Union Restriction of Hazardous Substances Directive (Directive EC 2002/95)

**QHE T8 8FT**

*Banded Pack, (add "-B" to Description). Banded Pack and 10-Pack contain 10 pieces each. F096T8/XP/SS (55W) has been re-rated to F096/54W/XP/SS.*

<sup>1</sup> 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 QHE2x59-ISL & ISN models only. Cap off any unused blue lead (insulate).**

**QUICKTRONIC 2x59**

**Dimensions Standard Enclosure:**

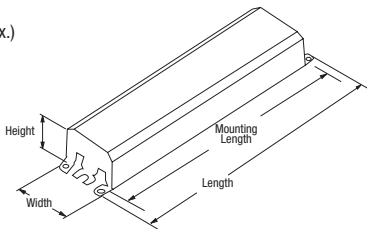
Overall: 9.5" L x 2.38" W x 1.6" H  
 Mounting: 8.90"

**Packaging:**

Weight: 2.8 lbs ea. (approx.)

**Wiring:**

Leads only,  
 no connectors provided

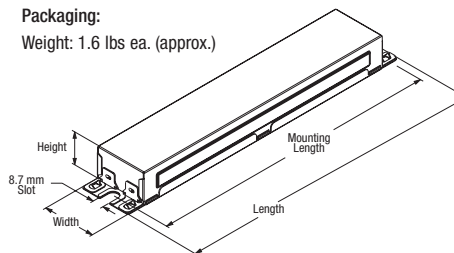


**Dimensions "SC" Small Enclosure:**

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

**Packaging:**

Weight: 1.6 lbs ea. (approx.)



**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

Item Number **50237 QHE 2 x 59T8 / UNV ISN - SC** Case Size  
 QUICKTRONIC High Efficiency Starting/Ballast Factor  
 Number of Lamps (2) Line Voltage (120-277V)  
 Primary Lamp Wattage

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