

QUICKTRONIC® T8 59 Instant Start Universal Voltage

High Efficiency Series

QHE T8 59 8FT

Lamp/Ballast Guide

59W T8 8-Foot OCTRON
2-lamp QHE2x59T8-ISL-SC
2-lamp QHE2x59T8-ISM-SC
2-lamp QHE2x59T8-ISH

QHE2x59T8-ISL-SC &
QHE2x59T8-ISM-SC operates 1 or 2:
F096T8 (59W), F096T8/SS (55W),
F072T8 & F048T8

QHE2x59T8-ISH operates 2 lamps only:
F096T8 (59W), F096T8/SS (55W),
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
- 77%, 88% or 115% Ballast Factors
- 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

Application Information

SYLVANIA QUICKTRONIC High Efficiency is ideally suited for:

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

SYLVANIA 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.

SYLVANIA QUICKTRONIC High Efficiency (QHE) 59IS operates 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.

SYLVANIA QUICKTRONIC High Efficiency (QHE) is also covered by our QUICK 60+®

System Information

SYLVANIA QUICKTRONIC High Efficiency (QHE) 59IS operates from 120V through 277V, eliminating “wrong voltage” wiring errors and reducing the number of models in inventory by 50%.

SYLVANIA QUICKTRONIC High Efficiency (QHE) uses 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.

A complete OSRAM SYLVANIA System Performance Guide showing performance characteristics for all combinations of lamps and ballast is available upon request.

Normal, Low & High Ballast Factor Models



warranty, the first and most comprehensive lamp & ballast system warranty in the industry. This product is also offered in new banded packaging and pallet packs.

System Type	Input Power (W)	Mean System Lumens	Mean RLO	Initial System LPW	Energy Savings
System Type QHE-ISL (2-lamps)					
Magnetic Ballast & F96T12/SS	125	8209	Baseline	75	Baseline
QTP2x59-ISM & F096T8/XP/SS (55W)	102	9430	115%	98	18%
QHE2x59-ISL & F096T8/XP (59W)	94	8830	108%	100	25%
QHE2x59-ISL & F096T8/XP/SS (55W)	88	8250	101%	100	30%
System Type QHE-ISM (2-lamps)					
Magnetic Ballast & F96T12	160	9984	Baseline	71	Baseline
Magnetic Ballast & F96T12/SS	125	8209	82%	75	22%
QTP2x59-ISM & F096T8/XP (59W)	110	10,090	101%	98	31%
QHE2x59-ISM & F096T8/XP (59W)	107	10,090	101%	100	33%
QHE2x59-ISM & F096T8/XP/SS (55W)	100	9430	94%	100	38%
System Type QHE-ISH (2-lamps)					
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/XP (55W)	131	12,325	93%	100	45%

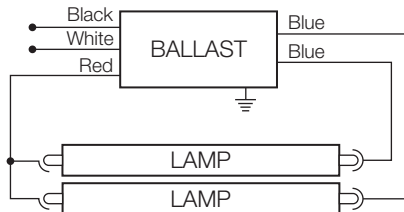
SPECIFICATION DATA

Catalog #	Date	Type
Project	Prepared by	
Comments		

High Efficiency Electronic T8 Fluorescent Systems (Normal, Low & High B.F.)

Item Number	OSRAM SYLVANIA 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
LOW BALLAST FACTOR											
50239 49869 49870	QHE2x59T8/UNV-ISL-SC <i>Banded Pack</i> <i>10-Pack</i> <i>Pallet Pack</i>	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
		0.74/0.32	F096T8/XP/SS (55W)	5700	2	0.77	8780	8250	89/88	99/100	0.88
		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
NORMAL BALLAST FACTOR											
50237 49859 49860	QHE2x59T8/UNV-ISN-SC <i>Banded Pack</i> <i>10-Pack</i> <i>Pallet Pack</i>	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
		0.84/0.36	F096T8/XP/SS (55W)	5700	2	0.88	10,030	9430	102/100	99/100	0.88
		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
HIGH BALLAST FACTOR											
50238 49879 49880	QHE2x59T8/UNV-ISH <i>Banded Pack</i> <i>10-Pack</i> <i>Pallet Pack</i>	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
		1.08/0.47	F096T8/XP/SS (55W)	5700	2	1.15	13,110	12,325	134/131	98/100	0.88
		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	0.59

*Banded Pack, (add "-B" to Description). Banded Pack and 10-Pack contain 10 pieces each. Pallet Pack contains 840 pieces, (add "-PAL" to Description).
1: Ballast Efficiency Factor (BEF) shown = (Ballast Factor X 100) divided by Input Power (Note: calculation based on lowest wattage value).*



Note: One lamp operation is possible for QHE2x59-ISL & ISN models only. Cap off any unused blue lead (insulate).

QUICKTRONIC 2x59

Dimensions Standard Enclosure:

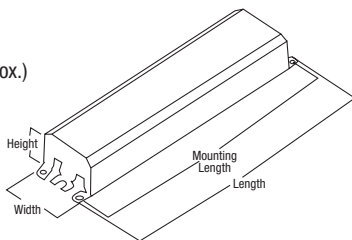
Overall: 9.5" L x 2.38" W x 1.6" H
Mounting: 8.90"

Packaging:

Weight: 2.8 lbs ea. (approx.)

Wiring:

Leads only,
no connectors provided

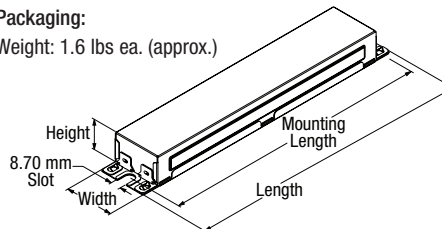


Dimensions "SC" Small Enclosure:

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

Packaging:

Weight: 1.6 lbs ea. (approx.)



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

Normal, Low, High BF

59 T8 Instant Start

High Efficiency

Performance Guide

Data based upon SYLVANIA 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 SYLVANIA Electronic Ballast Catalog.

Specifications
Data based on F96T8

- Starting Method:** Instant Start
- Ballast Factor:** 0.77/0.88/1.15
- Circuit Type:** Parallel
- Lamp Frequency:** >40kHz
- Lamp CCF:** Less than 1.7
- Starting Temp:²**
 - 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
- 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

² Operation below 50°F (10°C) may affect light output or lamp operation – see "Low Temp. Starting" definition.

System Life / Warranty

QUICKTRONIC products are covered by our QUICK 60+® warranty, a comprehensive lamp and ballast system warranty. For additional details, refer to our QUICK 60+ warranty bulletin.

OSRAM SYLVANIA
National Customer
Service and Sales Center
 1-800-LIGHTBULB
 (1-800-544-4828)
 www.sylvania.com



QHE T8 59 8 FT

Specifications subject to change without notice.