QUICKTRONIC® PROStart® T8 High Ambient Temp. Systems

RoHS

Type CC, Lamp Striation Control
Parallel Operation
OHS
Migh Ballast Factor

High Efficiency Series

Lamp / Ballast Guide

Primary Systems
32W T8 - OCTRON® lamps
2-lamp QHE2x32T8/UNV PSH-HT
3-lamp QHE3x32T8/UNV PSH-HT-SC
4-lamp QHE4x32T8/UNV PSH-HT

Also operates:

FB032, FB031, F030/SS (30W), F028/SS (28W), F025/SS (25W), FB030/SS (30W), FB029/SS (29W), F025, FB024, F017 & FB016

Key System Features

- High Efficiency Systems are over 90% efficient
- PROStart Programmed Rapid Start for extended lamp life
- High ballast factor: 1.15 1.18
- Parallel operation one lamp out others stay lit
- 90°C maximum case temperature
- UL Type CC
- LSC (Lamp Striation Control)
- Universal input voltage (120-277V)
- Minimum starting temperature:
 - -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

SYLVANIA QUICKTRONIC PROStart T8 ballasts

are ideally suited for:

- High bay
- Warehouses
- Applications where extended lamp life is required to reduce maintenance costs
- Areas where frequent switching is desired
- · Occupancy sensor usage
- Building control systems
- Areas that are underlit

SYLVANIA QUICKTRONIC PROStart programmed rapid start electronic T8 ballasts offer eight major advantages:

- Operate 32W linear and U-bend equivalent T8 lamps at High Efficiency and high ballast factor which increases light levels while optimizing system performance.
- Longer Lamp Life: System PSH, (Programmed Start High Ballast Factor) is the first SYLVANIA high ballast factor model to extend lamp life which is ideal for applications where long lamp life is desired to reduce maintenance costs.
- High Ambient Temperature: specifically designed for those applications where the ballast is subjected to higher ambient temperatures, such as high bays in industrial installations.
- Parallel Circuitry: keeps remaining lamps lit if one or more go out. First SYLVANIA PROStart ballast to offer parallel lamp operation.



- Available in 2, 3 & 4-lamp models which allow great flexibility for various light levels in high bay applications to replace HID or T12HO lighting systems.
- UL Type CC compliant: ballasts utilize a micro-controller based circuit to reduce arcing caused by loose connections or improper lamp pin to socket connections.
- 7. 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. (Please consult lamp manufacturers for additional details.)

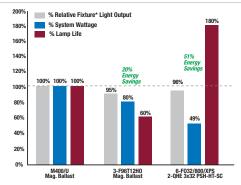
System Information

SYLVANIA QUICKTRONIC High Efficiency (QHE) System advantages:

- Operate from 120V through 277V
 - Eliminates "wrong voltage" errors
 - Reduces inventory by 50%
- Utilizes Programmed Rapid Start operation for:
 - · Highest system efficacy
 - Longer life
 - Over 100,000 switching cycles for occupancy sensor and building control systems applications.
- Operate at >42 kHz to reduce potential interference with infrared control systems

	Lamp & Ballast Type	Input Power (W)	Initial LPW	Mean Fixture* Lumens	Relative Fixture* Output	% Energy Savings	Lamp Life @3hrs/ start
	M400/U Magnetic Ballast	452	61	17,784	Baseline	Baseline	Baseline
	3-F96T12H0 Magnetic Ballast	360	58	16,875	95%	20%	60%
	6-F032/800/XPS 2-QHE3x32 PSH-HT-SC	220	97	17,090	96%	51%	180%

*Based on Fixture Efficiency: 76% for M400/U and 85% for T12HO and F032T8 lamps.



SPECIFICATION DATA

Catalog #	Date	Туре	
Project	Prepared by		

Comments

High Efficiency Type CC, Lamp Striation Control & High Ambient Temperature (120-277V)

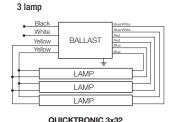


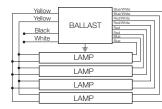
Item Number	OSRAM SYLVANIA Description	Input Current (AMPS)	Lamp Type	Rated Lumens (lm)	No. of Lamps	Ballast Factor (BF)	System Lumens	Mean Lumens	Input Power (W)	System Efficacy (Im/W)	BEF¹
	QHE2x32T8/UNV-PSH-HT	0.60/0.27	F032/700	2800	2	1.15	6440	5795	72/70	89/92	1.64
49450	Banded Pack	0.60/0.27	F032/XP	3000	2	1.15	6900	6485	72/70	96/99	1.64
49459	Pallet Pack	0.57/0.25	F030/SS	2850	2	1.15	6555	6160	69/67	95/98	1.72
		0.53/0.23	F028/SS	2725	2	1.15	6270	5890	63/62	100/101	1.85
		0.47/0.20	F025/SS	2475	2	1.15	5695	5350	56/55	102/104	2.09
		0.46/0.20	F025/XP	2175	2	1.16	5045	4740	55	92	2.11
		0.32/0.14	F017/XP	1375	2	1.17	3220	3025	38	85	3.08
	QHE3x32T8/UNV-PSH-HT-SC	0.94/0.40	F032/700	2800	3	1.15	9660	8695	110/108	88/89	1.06
49520 O	Banded Pack	0.94/0.40	F032/XP	3000	3	1.15	10,350	9730	110/108	94/96	1.06
		0.88/0.37	F030/SS	2850	3	1.15	9835	9245	104/101	95/97	1.14
		0.81/0.34	F028/SS	2725	3	1.15	9400	8835	95/93	99/101	1.24
		0.72/0.31	F025/SS	2475	3	1.15	8540	8025	85/84	100/102	1.37
		0.70/0.30	F025/XP	2175	3	1.17	7635	7175	83/82	92/93	1.43
		0.48/0.21	F017/XP	1375	3	1.18	4870	4575	56	87	2.11
	QHE4x32T8/UNV-PSH-HT	1.22/0.53	F032/700	2800	4	1.15	12,880	11,590	143/141	90/91	0.82
49455	Banded Pack	1.22/0.53	F032/XP	3000	4	1.15	13,800	12,970	143/141	97/98	0.82
49470	Pallet Pack	1.13/0.49	F030/SS	2850	4	1.15	13,110	12,325	132/130	99/101	0.88
		1.06/0.46	F028/SS	2725	4	1.15	12,535	11,785	124/123	101/102	0.93
		0.95/0.41	F025/SS	2475	4	1.15	11,385	10,700	112/110	102/104	1.05
		0.91/0.40	F025/XP	2175	4	1.17	10,180	9570	107/106	95/96	1.10
		0.63/0.28	F017/XP	1375	4	1.18	6490	6100	73	89	1.62

Banded pack contains 10 pieces, (add "-B" to Description). Pallet Pack contains 500 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).
- O Preliminary specifications. Please contact OSRAM SYLVANIA for additional information.

2 lamp BALLAST LAMP QUICKTRONIC 2x32





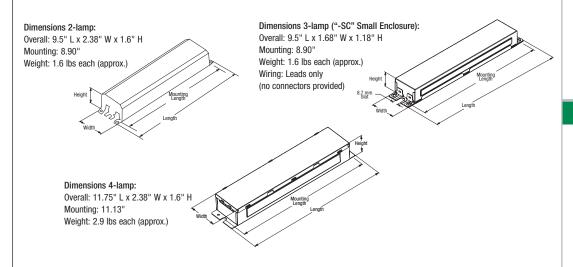
4 lamp

QUICKTRONIC 4x32

High Case Temp. Rating

Line Voltage (120-277V)

Starting Type/Ballast Factor



49450 QHE 2 x 32T8 / UNV PSH HT-

High Ballast Factor

8 PROStart®

High Efficiency

Performance Guide

Data based upon SYLVANIA OCTRON® lamps shown. QUICKTRONIC® QHE PROStart ballasts are also compatible with other lamp manufacturers equivalent lamp types that meet ANSI specifications.

QHE PROStart ballasts will also operate F17 & F25, SUPERSAVER & U-Bend equivalent T8 lamps.

Specifications

Starting Method: Programmed Rapid Start Ballast Factor: 1.15 - 1.18 Circuit Type: Parallel

Lamp Frequency: >42 kHz Lamp CCF: Less than 1.7 Starting Temp:2

-20°F (-29°C) for OCTRON T8 lamps; 60°F (16°C) for SUPERSAVER® T8 lamps Input Frequency: 50/60 Hz

THD: <10%

Power Factor: >98%

Voltage Range: ±10% of 120-277V rated line (108-305V)

UL Listed Class P, Type 1 Outdoor UL Type CC rated Lamp Striation Control (LSC) CSA certified

High Ambient Applications:

90°C Max. case temp. (3 yr. warranty) Standard Ambient Applications:

70°C Max. Case Temp. (5 yr. warranty) 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)

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.

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



QUICKTRONIC High Efficiency-

Number of Lamps (2, 3, 4)-

Item Number