



QUICKTRONIC® PROStart® T8HO

Universal Voltage **High Ambient Temp.**

High Efficiency Series

Lamp / Ballast Guide

Primary Systems:

F096 T8HO-OCTRON®

2-lamp QHE 2x86T8HO/UNV PSN-HT

QHE 2x86T8HO/UNV PSN-HT operates 2 or 1 F096T8HO, F72T8HO(65W), F60T8HO(55W) & F48T8HO(44W)

Key System Features

- High Efficiency Systems — over 90% efficient
- 90°C maximum case temperature
- Normal Ballast Factor: 0.95
- PROStart® Programmed Rapid Start
 - Extends lamp life
 - Ideal for Occupancy sensors
 - Reduces maintenance costs
- Universal input voltage (120-277V)
- Min. Starting Temp:
 - -20°F/-29°C T8HO lamps



Application Information

SYLVANIA QUICKTRONIC High Efficiency T8HO

is ideally suited for:

- High Bay
- Energy retrofits
- Warehouse
- Industrial
- New Construction
- Refrigeration Coolers
- Occupancy Sensors Applications

SYLVANIA QUICKTRONIC High Efficiency QHE electronic T8HO PROStart® Normal Ballast Factor operates the family of T8HO lamps at high efficiency which increases light levels while optimizing system performance.

This ballast system is the ideal replacement for existing T12HO applications and HID systems.

Programmed Rapid Start QHE T8HO PROStart® extends lamp life which is ideal for applications where long lamp life is desired to reduce maintenance cost or for use with occupancy sensors.

This ballast design provides the flexibility to operate as 2-lamp or 1-lamp system, allowing for an additional 50% reduction in inventory.

The T8HO PSN system **"High Ambient Temperature"** is specifically designed for

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 >80kHz to reduce potential interference with infrared control systems

Setting the standard for quality, T8HO Program Start Normal Ballast Factor is also covered by our QUICK 60+® warranty, the first and most comprehensive system warranty in the industry.

Normal Ballast Factor



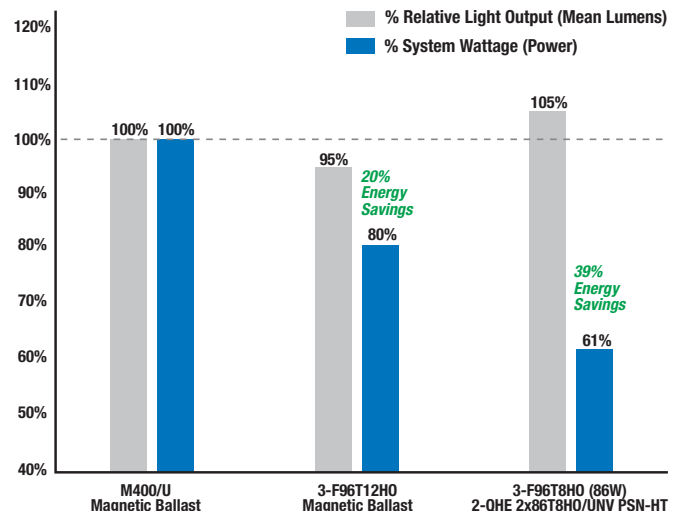
those applications where the ballast is subjected to **higher ambient temperatures**, such as high bays in industrial

installations. New 90°C case temperature and -20°F/-29°C starting rating makes this ballast the ideal T8HO system for higher temperature applications.

Lamp & Ballast Type	Input Power (W)	Initial System LPW	Mean Fixture Lumens	Relative Fixture Lumens	% Energy Savings
M400/U Mag. Ballast	452	61	17,784	100%	Baseline
3-F96T12HO Mag. Ballast	360	58	16,875	95%	20%
3-F96T8HO (86W) 2-QHE2x86T8HO/UNV PSN-HT*	277	72	18,673	105%	39%

Fixture Efficiency: M400/U = 0.76, T12HO & T8 = 0.85

*3-lamp (F96T8HO) fixture data is based on operating two 2-lamp ballasts with the second ballast wired to operate as a one-lamp system.



SPECIFICATION DATA

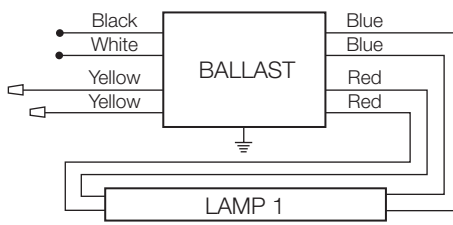
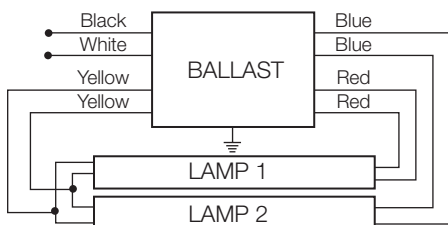
Catalog #	Date	Type
Project	Prepared by	
Comments		

High Efficiency PROStart® T8HO (120-277V) High Ambient Temperature

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)	BEF¹
50304 50305	QHE 2x86T8HO/ UNV-PSN-HT Banded Pack Pallet Pack	1.54/0.67	F96T8HO (86W)	8200	2	0.95	15,580	14,645	182/178	86/88	0.53
		1.13/0.50	F72T8HO (65W)	6100	2	0.96	11,710	10,540	136/133	86/88	0.72
		0.97/0.44	F60T8HO (55W)	5050	2	0.96	9695	8725	115	84	0.83
		0.72/0.34	F48T8HO (44W)	4000	2	0.96	7680	6910	86/85	89/90	1.13
		0.78/0.36	F96T8HO (86W)	8200	1	0.96	7870	7400	95	83	1.01
		0.62/0.30	F72T8HO (65W)	6100	1	0.96	5855	5270	73	80	1.32
		0.50/0.26	F60T8HO (55W)	5050	1	0.96	4850	4365	60	81	1.60
		0.43/0.24	F48T8HO (44W)	4000	1	0.96	3840	3455	51	75	1.88

Banded Pack contains 10 pieces, (add "B" to description). Pallet Pack 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).



Note: For one lamp application, cap two yellow leads. Insulate to 600 volts.

Dimensions:

Overall: 11.75" L x 2.38" W x 1.6" H

Mounting: 8.90"

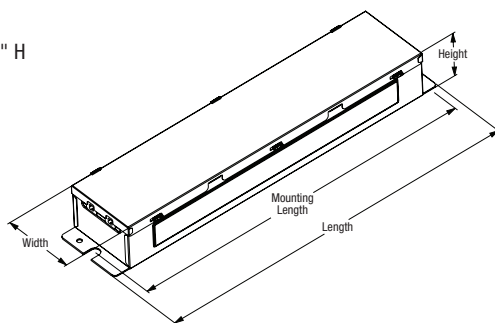
Product Weight:

3.5 lbs each (approx)

Wiring:

Leads only

(no connectors provided)



Item Number	50304	QHE 2 x 86T8HO UNV PSN-HT	High Case Temp. Rating
QUICKTRONIC High Efficiency			Starting Type/Ballast Factor
Number of Lamps (2)			Line Voltage (120-277V)
Primary Lamp Wattage			

Normal Ballast Factor

T8HO PROStart® PSN

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 F48T8HO, F60T8HO and F72T8HO, equivalent T8 lamps. Complete performance data is available in the QUICKSYSTEMS section of the SYLVANIA Ballast Technology & Specification Guide.

Specifications

Data based on F096T8HO lamp

Starting Method: Programmed

Rapid Start

Ballast Factor: • 2-Lamp 0.95

• 1-Lamp 0.96

Circuit Type: Series

Lamp Frequency: >80kHz

Lamp CCF: Less than 1.7

Starting Temp:² -20°F/-29°C for OCTRON T8HO lamps

Input Frequency: 50/60 Hz

THD: <10%

Power Factor: >98%

Voltage Range: ±10%

UL Listed Class P, Type 1 Outdoor

CSA Certified

High Ambient (3 yr. warranty):

90°C Max. Case Temp.

Standard (5 yr. warranty):

70°C Max. Case Temp.

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):

up to 8 ft

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
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Specifications subject to change without notice.