QUICKTRONIC® PROStart® T5HO **Universal Voltage Systems**



Type CC **Programmed Rapid Start** Normal Ballast Factor

High Efficiency Series

Lamp / Ballast Guide

1 or 2 lamp T5H0 - PENTRON® lamps QHE2x39-24T5H0/UNV PSN QHE2x54T5H0/UNV PSN

Also operates:

FP39/SS, FP24/SS, FPC22, FT24DL. FT36DL, FP54/SS, FT55DL, FT50DL, FPC55 and L58T8

Two lamp model can be wired for one lamp operation.

Key System Features

- · High Efficiency Systems over 90% efficient
- Universal voltage (120-277V)
- Low-profile (1.00" High)
- 100% Ballast factor (see table)
- QUICKSENSE® ballast technology (end-of-lamp-life sensing)
- PROStart programmed rapid start
- UL type CC rated
- Min. Starting Temp:
- -20°F/-29°C
- Operates at >42 Khz to reduce potential interference with infrared control systems
- High power factor
- · Low harmonic distortion
- Lightweight
- UL, CSA, FCC
- · RoHS compliant
- · Lead-free solder and manufacturing process



Application Information

SYLVANIA QUICKTRONIC High Efficiency T5H0 ballasts

are ideally suited for:

- · Commercial & retail
- Hospitality & institutional
- New construction
- Industrial high bay lighting
- Indirect lighting
- Surface mount
- · Cove lighting

SYLVANIA QUICKTRONIC High Efficiency (QHE) PROStart T5HO electronic ballasts operate PENTRON HO, PENTRON HO Circline, and DULUX® L T5 lamps with

full lumen output and optimal system performance. These ballasts provides nearly twice the light output (188%) of T8 systems, with the same number of lamps, allowing many new design options. One lamp fixtures can now be

used in place of two lamp models. QUICKTRONIC High Efficiency T5HO

ballasts offer a minimum starting temperature of -20°F/-29°C for PENTRON T5HO lamps.

QUICKTRONIC PROStart T5HO ballasts are RoHS compliant and feature lead-free solder and manufacturing process.

The two lamp unit can be wired for one lamp operation, allowing for an



additional 50% reduction in inventory model numbers. The ballast has a 1.18"W x 1.00"H (30mm x 25.4mm) cross section which allows for smaller and unique fixture profiles.

Setting the standard for quality, QUICKTRONIC ballasts are covered by the QUICK 60+® warranty, the first and most comprehensive system warranty in the industry.

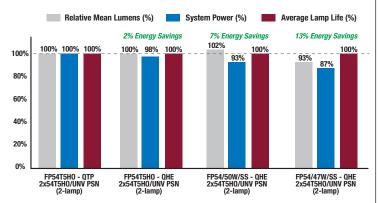
System Information

SYLVANIA QUICKTRONIC T5HO 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

QUICKSENSE ballast technology helps to protect against overheated bases and sockets, as well as cracking of the glass wall, and uses dynamic end-of-lamp-life sensing to avoid false shutdowns caused by some static sensing methods. QUICKSENSE ballast technology will auto reset when the end-of-life lamps are replaced with new ones.

System Type	Input System Power (W)	Initial System Lumens	Mean System Lumens	Initial System Efficacy (Im/W)	Relative Mean Lumens (%)	Energy Savings (%)
FP54T5H0 - QTP 2x54T5H0/UNV PSN (2-lamp)	121	10,000	9300	83	Baseline	Baseline
FP54T5HO - QHE 2x54T5HO/UNV PSN (2-lamp)	119	10,000	9300	84	100%	2%
FP54/50W/SS - QHE 2x54T5HO/UNV PSN (2-lamp)	112	10,200	9485	91	102%	7%
FP54/47W/SS - QHE 2x54T5HO/UNV PSN (2-lamp)	105	9335	8680	89	93%	13%



SPECIFICATION DATA

Catalog # Date Type
Project Prepared by

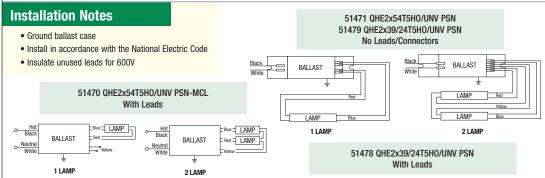
Comments

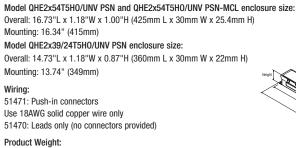
High Efficiency, Type CC & Universal Voltage (120-277V)



Item	OSRAM SYLVANIA	Input Current	Lamp ¹	Rated¹ Lumens	No. of	Ballast ¹ Factor	System ¹	Mean ¹	Input¹ Power (Watts)	System ³ Efficacy		
Number	Description	(AMPS)	Type	(lm)	Lamps	(BF)	Lumens	Lumens	120V 277V	(lm/W)	BEF ²	
51471	QHE2x54T5H0/UNV PSN	1.00/0.43	FP54T5H0	5000	2	1.00	10,000	9300	119 116	86	0.86	
	20-pack (without leads)	0.94/0.40	FP54/50W/SS	5000	2	1.02	10,200	9485	112 109	94	0.94	
		0.89/0.38	FP54/47W/SS	4575	2	1.02	9335	8680	105 103	91	0.99	
		0.88/0.37	FT55DL	4800	2	0.86	8255	7680	106 105	79	0.82	
51470 😊	QHE2x54T5H0/UNV PSN-MCL	0.90/0.42	FT50DL	4300	2	1.04	8945	8320	110 108	83	0.96	
	10-pack (with leads)	0.92/0.39	L58	5200	2	0.85	8840	8220	111 108	82	0.79	
		0.82/0.35	FPC55	4000	2	0.80	6400	5950	96 94	68	0.85	
		0.53/0.23	FP54T5H0	5000	1	1.05	5250	4885	62 61	86	1.72	
		0.49/0.21	FP54/50W/SS	5000	1	1.05	5250	4885	58 58	91	1.81	
		0.45/0.20	FP54/47W/SS	4575	1	1.03	4710	4380	53 53	89	1.94	
		0.49/0.21	FT55DL	4800	1	0.92	4415	4105	56 55	80	1.67	
		0.51/0.22	FT50DL	4300	1	1.09	4685	4360	57 57	82	1.91	
		0.48/0.21	L58	5200	1	0.87	4525	4205	57 57	79	1.53	
		0.45/0.20	FPC55	4000	1	0.81	3240	3015	49 49	66	1.65	
51479	QHE2x39/24T5H0/UNV PSN	0.70/0.30	FP39T5H0	3500	2	1.00	7000	6510	83 81	86	1.23	
	20-pack (without leads)	0.65/0.28	FP39/35W/H0/SS	3500	2	1.01	7070	6575	77 76	93	1.33	
	Connectors ONLY	0.47/0.21	FP24T5H0	2000	2	1.00	4000	3720	54 53	75	1.89	
		0.43/0.19	FP24/21W/H0/SS	2000	2	1.01	4040	3757	51 50	81	2.02	
51478	QHE2x39/24T5H0/UNV PSN	0.37/0.16	FP39T5H0	3500	1	1.01	3535	3288	42 42	84	2.40	
	10-pack (with leads)	0.35/0.16	FP39/35W/H0/SS	3500	1	1.02	3570	3320	41 40	89	2.55	
	Connectors WITH leads inserted	0.25/0.12	FP24T5H0	2000	1	1.01	2020	1879	29 29	70	3.48	
		0.23/0.11	FP24/21W/H0/SS	2000	1	1.02	2040	1897	27 27	76	3.78	
1. At 35°C	1. At 35°C lamp ambient temperature											

- 1: At 35°C lamp ambient temperature.
- 2: Ballast Efficiency Factor (BEF) shown = (Ballast Factor x 100) divided by Input Power (Note: calculation based on lowest wattage value)
- 3: System Efficacy calculation based on lowest input power value.
- © New Product. Please note item number 51471 connector/white case model QHE2x54T5HO/UNV PSN with leads inserted (for customer satisfaction) will be shipped as item number
- 51470 until the new black MCL (Micro-Can Long) case with leads QHE2x54T5HO/UNV PSN-MCL is in production. Check with your SYLVANIA Sales Professional for new product availability





51471: 0.88 lbs (0.40kg) each (approx) 51470: 1.0 lb (0.45kg) each (approx)

Item Number — 51471 QHE 2 x 54T5H0 UNV PSN — Starting/Ballast Factor
QUICKTRONIC High Efficiency — Line Voltage (120-277V)
Number of Lamps (2) — Primary Lamp Wattage

SYLVANIA, PENTRON, QUICKSENSE, PROStart, SUPERSAVER, -\UM- the system solution, See the World in a New Light and QUICK60+ are registered trademarks of OSRAM SYLVANIA Inc. QUICKTRONIC and DULUX are registered trademarks of OSRAM AG.

Normal Ballast Factor

T5HO PROStart® UNV

High Efficiency

Performance Guide

Data based upon SYLVANIA PENTRON® HO lamps shown. QUICKTRONIC® T5HO ballasts are also compatible with other lamp manufacturers equivalent lamp types that meet ANSI specifications.

Specifications4

Starting Method: Programmed Rapid Start

Ballast Factor: 1.00 (see table)

Circuit Type: Series Lamp Frequency: >42 kHz Lamp CCF: Less than 1.6 Starting Temp: -20°F (-29°C)⁵ Input Frequency: 50/60 Hz

Low 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

CSA Certified 70°C Max Case Temperature

FCC 47CFR Part 18 Non-Consumer Class A Sound Rating

ANSI C62.41 Cat. A Transient Protection QUICKSENSE®: End-of-Lamp-

Life Sensing

Remote Mounting (Max. wire length from ballast case to lampholder): up to 18 feet. Remote red leads up to 18 feet. Keep blue leads <10 feet.⁵ RoHS Compliant⁶

- 4 Data based on PENTRON HO lamp types for primary ballast application.
- 5 Operation below 50°F (10°C) may affect light output or lamp operation see "Low Temp. Starting" definition.
- 6 Complies with European Union Restriction of Hazardous Substances Directive. (Directive 2002/95/EC)

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

MCL (Micro-Can Long)

Specifications subject to change without notice

