

QUICKTRONIC® QHE LED T8

Universal Voltage Systems

Normal Power LED System



QHE LED T8 ISN

LED T8 / Electronic Control Gear Guide

- LED15T8 SubstiTUBE® LED T8 Lamps
- 1-lamp QHE 1xLEDT8/UNV-ISN-SC
 - 2-lamp QHE 2xLEDT8/UNV-ISN-SC
 - 3-lamp QHE 3xLEDT8/UNV-ISN-SC
 - 4-lamp QHE 4xLEDT8/UNV-ISN-SC

Also operates

LED12T8/L36, LED08T8/L24, LED15T8/U

Key System Features

- Up to 122 LPW (lumens/watt) with SubstiTUBE LED T8
- Normal power LED T8 Systems
- Universal voltage (120-277)
- Small Can enclosure size
- Up to 50% energy savings compared to T12 magnetic systems
- Ambient Starting Temp: -4°F to 122°F (-20°C to 50°C)
- <20% THD
- RoHS compliant
- Lead-free solder and manufacturing process

Application Information

OSRAM QUICKTRONIC QHE LED T8 are ideally suited for:

- Any applications where T8 systems are needed for maximum energy savings
- Commercial & Retail
- Energy Management
- Energy Retrofits
- Hospitality & Institutional
- New Construction

OSRAM QUICKTRONIC High Efficiency LED T8 (QHE LED) Electronic Control Gears (ECG) offer several advantages:

1. **Optimized design for SubstiTUBE LED T8**
 - Up to 34% in energy savings compared to standard T8 Fluorescent systems
 - Maximum energy savings when compared to F34T12 magnetically ballasted systems
2. **Parallel Circuitry:** keeps remaining LED T8 lit if one or more go out.
3. **Banded Packaging**
 - Distributor-friendly for easy stocking and individual sales
 - ESCO friendly for fast installation
 - Reduced waste
 - Easy removable bands
 - No tangled wires

These ECGs are also RoHS compliant and feature lead-free solder and manufacturing process.

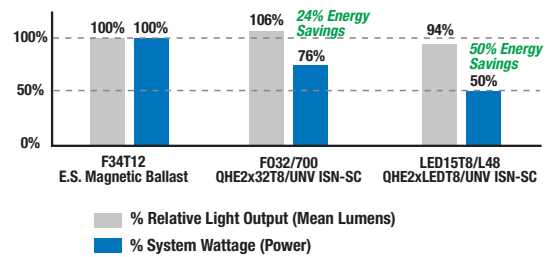


OSRAM QUICKTRONIC High Efficiency LED T8 (QHE LED) systems are covered up to 8 years by the SubstiTRONIC™ warranty, the most comprehensive LED system warranty in the industry.

System Information

OSRAM QUICKTRONIC QHE LED T8 System advantages:

- Operate from 120V through 277V
- Eliminates “wrong voltage” errors
- High System Efficacy



System Description	Input Power (W)	Initial System Lumens	System Efficacy LPW	Relative Initial Light Output	Energy Savings
F34T12 - E.S. Magnetic Ballast	72	4660	65	Baseline	Baseline
F032/700 - QHE2x32T8/UNV ISN-SC	55	4930	90	106%	24%
LED15T8/L48 - QHE2xLEDT8/UNV ISN-SC	36	4400	122	94%	50%



High Efficiency Universal Voltage (120-277V) Normal Power LED Systems

Item Number	Electronic Control Gear (ECG)	Input Current (AMPS)	SubstiTUBE LED T8	No. of LED T8	System Lumens (lm)	Input Power (W)	System Efficacy (lm/W)
75311	QHE1XLEDT8/UNV ISN-SC	0.16 / 0.07	LED15T8/L48/DIM/G6	1	2200	18	122
		0.15 / 0.07	LED15T8/L48/G6	1	2200	18	122
		0.13 / 0.06	LED12T8/L36/G6	1	1650	15	114
		0.09 / 0.04	LED08T8/L24/G6	1	1100	10	110
75312	QHE2XLEDT8/UNV ISN-SC	0.30 / 0.14	LED15T8/L48/DIM/G6	2	4400	36	122
		0.30 / 0.13	LED15T8/L48/G6	2	4400	36	122
		0.24 / 0.11	LED12T8/L36/G6	2	3200	28	114
		0.17 / 0.08	LED08T8/L24/G6	2	2200	20	110
75313	QHE3XLEDT8/UNV ISN-SC	0.45 / 0.20	LED08T8/L24/DIM/G6	3	6600	54	122
		0.43 / 0.19	LED15T8/L48/G6	3	6400	53	122
		0.35 / 0.16	LED12T8/L36/G6	3	4650	41	113
		0.26 / 0.11	LED08T8/L24/G6	3	3300	30	110
75314	QHE4XLEDT8/UNV ISN-SC	0.60 / 0.26	LED15T8/L48/DIM/G6	4	8800	72	122
		0.57 / 0.26	LED15T8/L48/G6	4	8500	70	122
		0.48 / 0.21	LED12T8/L36/G6	4	6300	56	113
		0.34 / 0.16	LED08T8/L24/G6	4	4350	40	110

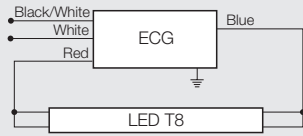
Use only with SubstiTUBE IPS LED T8.

Item No.	LED T8 Description	Length	Item No.	LED T8 Description	Length
75286	LED15T8/L48/DIM/830/SUB/G6	4ft	75128	LED12T8/L36/FG/830/SUB/G6	3ft
75287	LED15T8/L48/DIM/835/SUB/G6	4ft	75129	LED12T8/L36/FG/835/SUB/G6	3ft
75288	LED15T8/L48/DIM/841/SUB/G6	4ft	75130	LED12T8/L36/FG/841/SUB/G6	3ft
75297	LED15T8/L48/DIM/850/SUB/G6	4ft	75131	LED12T8/L36/FG/850/SUB/G6	3ft

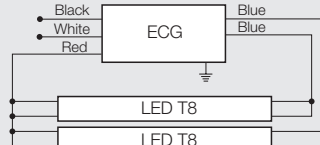
Item No.	LED T8 Description	Length	Item No.	LED T8 Description	Shape
75064	LED8T8/L24/FG/830/SUB/G6	2ft	75492	LED15T8/U/FP/830/SUB/G6	U-bend
75065	LED8T8/L24/FG/835/SUB/G6	2ft	75493	LED15T8/U/FP/835/SUB/G6	U-bend
75066	LED8T8/L24/FG/841/SUB/G6	2ft	75494	LED15T8/U/FP/841/SUB/G6	U-bend
75070	LED8T8/L24/FG/850/SUB/G6	2ft	75495	LED15T8/U/FP/850/SUB/G6	U-bend

*For additional SubstiTUBE LED T8 details, please refer to LED465.
For additional SubstiTUBE CURVALUME IPS LED T8 details please refer to LED464.

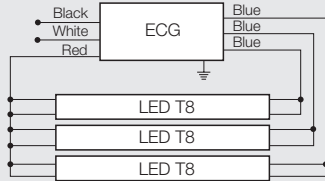
Wiring Diagrams



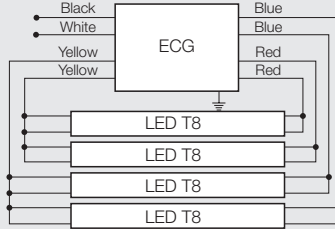
QHE LED 1 x T8



QHE LED 2 x T8



QHE LED 3 x T8



QHE LED 4 x T8

Use lamp holders with an internal shunt or ensure that lamp holders are wired in a shunt configuration.

Dimensions:

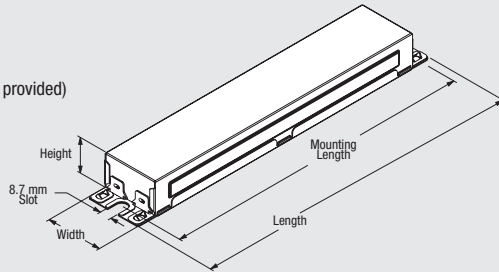
Overall: 9.5" L x 1.68" W x 1.18" H
Mounting: 8.90"

Product Weight:

14 oz each (approx.)

Wiring:

Leads only
(no connectors provided)



Specification Data

Type

Catalog #

Project

Comments

Prepared by

Performance Guide

Data based upon SubstiTUBE® LED T8 shown.
QHE LED T8 Electronic Control Gear will operate LED15T8/L48, LED12T8/L36, LED08T8/L24 and LED15T8/U.

Specifications

System Output: Normal Power

Circuit Type: Parallel

Ambient Operating Temperature:

-4°F to 122°F (-20°C to 50°C)

Input Frequency: 50/60 Hz

Low THD: <20%

Power Factor: >90%

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

cETLus Listed Class P, Type 1 Outdoor

70°C Max Case Temperature

FCC 47CFR Part 18 Non-Consumer

Class A Sound Rating

RoHS Compliant¹

ANSI C62.41 Cat. A Transient Protection

Remote Mounting (Max. wire length from case to lampholder): 20 ft

¹ Complies with European Union Restriction of Hazardous Substances (Directive EC 2002/95)

QHE LED T8 ISN

Ordering Guide

Item Number **75311 QHE 1 x LEDT8 / UNV ISN - SC** Case Size
QUICKTRONIC High Efficiency Normal Power System
Number of LED T8 Line Voltage
SubstiTUBE LEDT8

System Life / Warranty

QUICKTRONIC High Efficiency QHE LED products are covered up to 8 years by the SubstiTRONIC™ warranty, the most comprehensive LED system warranty in the industry. For additional warranty details, please refer to LED285.

For additional information refer to the warranty section of www.sylvania.com

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