

# QUICKTRONIC® QHE LED T8

## Universal Voltage Systems

Low Power LED System



QHE LED T8 ISL

### LED T8 / Electronic Control Gear Guide

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

Also operates

LED12T8/L36, LED08T8/L24, LED15T8/U

### Key System Features

- Up to 127 LPW (lumens/watt) with SubstiTUBE LED T8
- Lowest power LED T8 Systems
- Universal voltage (120-277)
- Small Can enclosure size
- Up to 58% 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 the lowest power 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 38% 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.

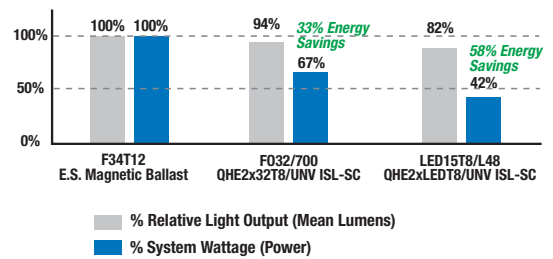


OSRAM QUICKTRONIC High Efficiency LED T8 (QHE LED) systems are covered up to 8 years by the SubstiTRONIC™ warranty, the most comprehensive LED system warranty in the industry.

### System Information

OSRAM QUICKTRONIC QHE LED T8 System advantages:

- Operate from 120V through 277V
- Eliminates "wrong voltage" errors
- Highest 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 ISL-SC	48	4370	91	94%	33%
LED15T8/L48 - QHE2xLEDT8/UNV ISL-SC	30	3800	127	82%	58%



## High Efficiency Universal Voltage (120-277V) Low 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)
75307	QHE1XLEDT8/UNV ISL-SC	0.13 / 0.06	LED15T8/L48/DIM/G6	1	1850	15	123
		0.13 / 0.06	LED15T8/L48/G5	1	1900	15	127
		0.11 / 0.05	LED12T8/L36/G5	1	1350	12	113
		0.08 / 0.04	LED08T8/L24/G5	1	1050	10	111
75308	QHE2XLEDT8/UNV ISL-SC	0.25 / 0.11	LED15T8/L48/DIM/G6	2	3700	30	123
		0.26 / 0.12	LED15T8/L48/G5	2	3800	30	127
		0.22 / 0.10	LED12T8/L36/G5	2	2900	26	114
		0.16 / 0.08	LED08T8/L24/G5	2	2100	19	111
75309	QHE3XLEDT8/UNV ISL-SC	0.37 / 0.16	LED15T8/L48/DIM/G6	3	5400	44	123
		0.38 / 0.17	LED15T8/L48/G5	3	5700	45	127
		0.34 / 0.15	LED12T8/L36/G5	3	4500	40	114
		0.24 / 0.11	LED08T8/L24/G5	3	3150	29	111
75310	QHE4XLEDT8/UNV ISL-SC	0.51 / 0.23	LED15T8/L48/DIM/G6	4	7400	60	123
		0.51 / 0.23	LED15T8/L48/G5	4	7600	60	127
		0.44 / 0.20	LED12T8/L36/G5	4	5850	52	114
		0.32 / 0.14	LED08T8/L24	4	4200	38	111

### Use only with SubstiTUBE IPS LED T8.

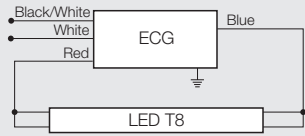
Item No.	LED T8 Description	Length	Item No.	LED T8 Description	Length
75181	LED15T8/L48/F/830/SUB/G5	4ft	75286	LED15T8/L48/DIM/830/SUB/G6	4ft
75182	LED15T8/L48/F/835/SUB/G5	4ft	75287	LED15T8/L48/DIM/835/SUB/G6	4ft
75183	LED15T8/L48/F/841/SUB/G5	4ft	75288	LED15T8/L48/DIM/841/SUB/G6	4ft
75184	LED15T8/L48/F/850/SUB/G5	4ft	75297	LED15T8/L48/DIM/850/SUB/G6	4ft

Item No.	LED T8 Description	Length	Item No.	LED T8 Description	Length
75150	LED12T8/L36/F/830/SUB/G5	3ft	75146	LED08T8/L24/F/830/SUB/G5	2ft
75151	LED12T8/L36/F/835/SUB/G5	3ft	75147	LED08T8/L24/F/835/SUB/G5	2ft
75152	LED12T8/L36/F/841/SUB/G5	3ft	75148	LED08T8/L24/F/841/SUB/G5	2ft
75153	LED12T8/L36/F/850/SUB/G5	3ft	75149	LED08T8/L24/F/850/SUB/G5	2ft

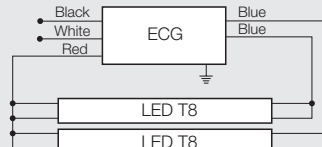
Item No.	LED T8 Description	Shape
75141	LED15T8/U/F/830/SUB/G5	U-bend
75142	LED15T8/U/F/835/SUB/G5	U-bend
75143	LED15T8/U/F/841/SUB/G5	U-bend
75145	LED15T8/U/F/850/SUB/G5	U-bend

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

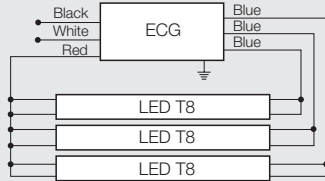
## Wiring Diagrams



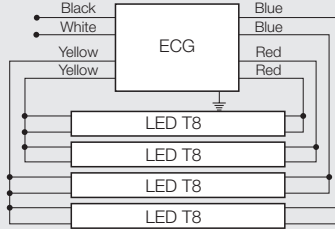
**QHE LED 1x32**



**QHE LED 2x32**



**QHE LED 3x32**



**QHE LED 4x32**

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

### Dimensions:

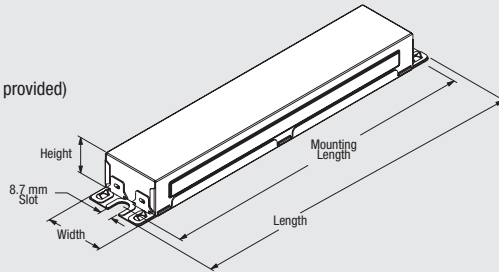
Overall: 9.5" L x 1.68" W x 1.18" H  
Mounting: 8.90"

### Product Weight:

1.24 lbs 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:** Low 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 Compliant<sup>1</sup>

ANSI C62.41 Cat. A Transient Protection

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

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

## Ordering Guide

Item Number	75307	QHE	1 x LEDT8 / UNV ISL - SC	Case Size
QUICKTRONIC High Efficiency				Low 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](http://www.sylvania.com)