

# QUICKTRONIC® QHE LED T8

Universal Voltage Systems

Low Power LED System



## LED T8 / Electronic Control Gear Guide

SubstiTUBE® IPS 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

## Key System Features

- Up to 138 (using 13W) LPW (lumens/watt) with SubstiTUBE LED T8
- Lowest power LED T8 Systems
- Universal voltage (120-277)
- Small Can enclosure size
- Up to 64% 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:

System meets UL Type C

Optimized design for SubstiTUBE LED T8

- Up to 46% in energy savings compared to standard T8 Fluorescent systems
- Maximum energy savings when compared to F34T12 magnetically ballasted systems

**Parallel Circuitry:** keeps remaining LED T8 lit if one or more go out.

**Banded Packaging**

- Distributor-friendly for easy stocking and individual sales
- ESCO friendly for fast installation
- Reduced waste
- Easy removable bands
- No tangled wires

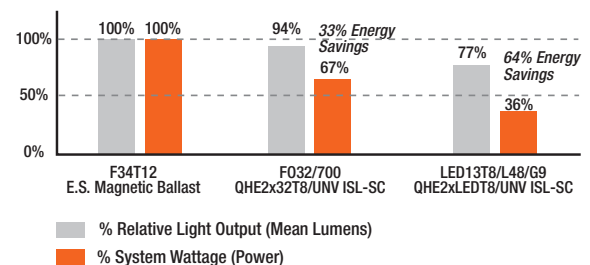


OSRAM QUICKTRONIC High Efficiency LED T8 (QHE LED) systems are covered up to 8 years by the SubstiTRONIC™ warranty, the most comprehensive LED system warranty in the industry.

## 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%
LED13T8/L48/G9 – QHE2xLEDT8/UNV ISL-SC	26	3600	138	77%	64%

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

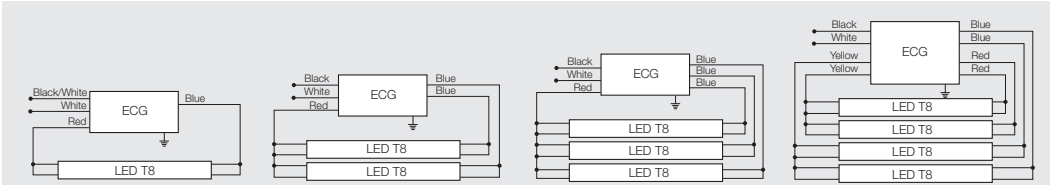
Item Number	Electronic Control Gear (ECG)	Input Current (AMPS)	SubstiTUBE LED T8	No. of LED T8	System Lumens (lm)	Input Power (W)	System Efficacy (lm/W)	DLC Y/N
75307	QHE1XLEDT8/UNV ISL-SC	0.12/0.05	LED13T8/L48/FG/DIM/G9	1	1800	13	138	N
		0.09/0.04	LED10T8/L48/FG/G9	1	1600	11	145	N
		0.10/0.05	LED13T8/L48/DIM/G8	1	1800	14	129	N
		0.09/0.04	LED10T8/L48/FG/SUB/G7	1	1400	11	127	N
75308	QHE2XLEDT8/UNV ISL-SC	0.22/0.10	LED13T8/L48/FG/DIM/G9	2	3600	26	138	Y
		0.18/0.08	LED10T8/L48/FG/G9	2	3200	22	145	N
		0.18/0.08	LED13T8/L48/DIM/G8	2	3600	27	133	Y
		0.18/0.08	LED10T8/L48/FG/SUB/G7	2	2800	22	127	N
75309	QHE3XLEDT8/UNV ISL-SC	0.34/0.15	LED13T8/L48/FG/DIM/G9	3	5400	39	138	Y
		0.28/0.13	LED10T8/L48/FG/G9	3	4800	33	145	N
		0.27/0.12	LED13T8/L48/DIM/G8	3	5300	40	132	Y
		0.28/0.12	LED10T8/L48/FG/SUB/G7	3	4200	33	127	N
75310	QHE4XLEDT8/UNV ISL-SC	0.44/0.20	LED13T8/L48/FG/DIM/G9	4	7200	52	138	Y
		0.37/0.16	LED10T8/L48/FG/G9	4	6400	44	145	N
		0.38/0.17	LED13T8/L48/DIM/G8	4	7000	53	132	Y
		0.37/0.16	LED10T8/L48/FG/SUB/G7	4	5600	45	124	N

Use only with SubstiTUBE IPS LED T8\*

Item Number	LED T8 Description	Wattage	Length
40691	LED13T8/L48/FG/DIM/830/SUB/G9	13	4 ft.
40692	LED13T8/L48/FG/DIM/835/SUB/G9	13	4 ft.
40693	LED13T8/L48/FG/DIM/841/SUB/G9	13	4 ft.
40694	LED13T8/L48/FG/DIM/850/SUB/G9	13	4 ft.
75508	LED13T8/L48/DIM/830/SUB/G8	13	4 ft.
75509	LED13T8/L48/DIM/835/SUB/G8	13	4 ft.
75510	LED13T8/L48/DIM/841/SUB/G8	13	4 ft.
75511	LED13T8/L48/DIM/850/SUB/G8	13	4 ft.
40695	LED10T8/L48/FG/830/SUB/G9	10	4 ft.
40696	LED10T8/L48/FG/835/SUB/G9	10	4 ft.
40697	LED10T8/L48/FG/841/SUB/G9	10	4 ft.
40698	LED10T8/L48/FG/850/SUB/G9	10	4 ft.
79544	LED10T8/L48/FG/830/SUB/G7	10	4 ft.
79545	LED10T8/L48/FG/835/SUB/G7	10	4 ft.
79546	LED10T8/L48/FG/841/SUB/G7	10	4 ft.
79547	LED10T8/L48/FG/850/SUB/G7	10	4 ft.

\*For additional SubstiTUBE LED T8 details, please refer to LED505, LED498, and LED527. Average Lamp Power and Average Lamp Lumens rated on QHE2xT8/UNV ISL.

Wiring Diagrams



**QHE LED 1X T8**      **QHE LED 2X T8**      **QHE LED 3X T8**      **QHE LED 4X T8**

**No delamping is permitted on any SubstiTRONIC LED T8 System.**

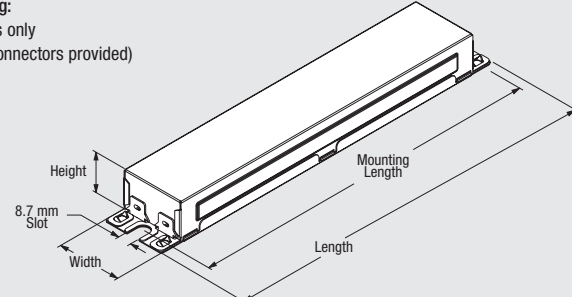
In order to prevent premature ECG and lamp failures "do not hot re-lamp". Electrical power to the fixture must be turned off when installing or replacing LED T8 lamps.

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)



Ordering Guide

Item Number

QUICKTRONIC High Efficiency

Number of LED T8

**75307 QHE 1 x LEDT8 / UNV ISL - SC**

Case Size

Low Power System

Line Voltage

SubstiTUBE LEDT8

Specification Data

Type	
Catalog #	
Project	
Comments	
Prepared by	

Performance Guide

Data based upon SubstiTUBE® LED T8 shown.

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

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 the warranty section of [www.osram.us/warranty](http://www.osram.us/warranty).

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