

Light is OSRAM

OSRAM

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 1xLED8/UNV-ISL-SC

2-lamp QHE 2xLED8/UNV-ISL-SC

3-lamp QHE 3xLED8/UNV-ISL-SC

4-lamp QHE 4xLED8/UNV-ISL-SC

Key System Features

- Up to 133 LPW (lumens/watt) with SubstiTUBE LED T8
- Lowest power LED T8 Systems
- Universal voltage (120-277)
- Small Can enclosure size
- Up to 63% 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:

- Optimized design for SubstiTUBE LED T8**
 - Up to 44% 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

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

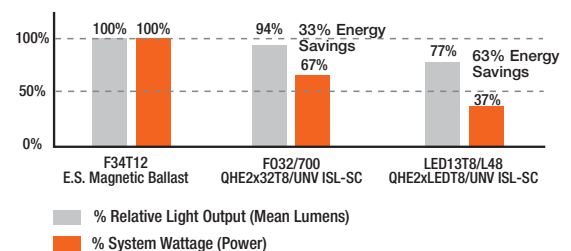


OSRAM QUICKTRONIC High Efficiency LED T8 (QHE LED) systems are covered up to 8 years by the SubstiTRONIC™ warranty, the most comprehensive LED system warranty in the industry.

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%
LED13T8/L48 – QHE2xLED8/UNV ISL-SC	27	3600	133	77%	63%

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	0.09/0.04	LED10T8/L48/FG/SUB/G7	1	1400	11	127
		0.10/0.05	LED13T8/L48/DIM/G8	1	1800	14	129
		0.13/0.06	LED15T8/L48/DIM/G7	1	1850	15.5	119
75308	QHE2XLEDT8/UNV ISL-SC	0.18/0.08	LED10T8/L48/FG/SUB/G7	2	2800	22	127
		0.18/0.08	LED13T8/L48/DIM/G8	2	3600	27	133
		0.26/0.11	LED15T8/L48/DIM/G7	2	3700	31	119
75309	QHE3XLEDT8/UNV ISL-SC	0.28/0.12	LED10T8/L48/FG/SUB/G7	3	4200	33	127
		0.27/0.12	LED13T8/L48/DIM/G8	3	5300	40	132
		0.38/0.17	LED15T8/L48/DIM/G7	3	5800	46	126
75310	QHE4XLEDT8/UNV ISL-SC	0.37/0.16	LED10T8/L48/FG/SUB/G7	4	5600	45	124
		0.38/0.17	LED13T8/L48/DIM/G8	4	7000	53	132
		0.53/0.23	LED15T8/L48/DIM/G7	4	7750	64	121

Use only with SubstiTUBE IPS LED T8*

Item No.	LED T8 Description	Length
79544	LED10T8/L48/FG/830/SUB/G7	4ft
79545	LED10T8/L48/FG/835/SUB/G7	4ft
79546	LED10T8/L48/FG/841/SUB/G7	4ft
79547	LED10T8/L48/FG/850/SUB/G7	4ft

Item No.	LED T8 Description	Length
75508	LED13T8/L48/DIM/830/SUB/G8	4ft
75509	LED13T8/L48/DIM/835/SUB/G8	4ft
75510	LED13T8/L48/DIM/841/SUB/G8	4ft
75511	LED13T8/L48/DIM/850/SUB/G8	4ft

Item No.	LED T8 Description	Length
75339	LED15T8/L48/DIM/830/SUB/G7	4ft
75340	LED15T8/L48/DIM/835/SUB/G7	4ft
75341	LED15T8/L48/DIM/841/SUB/G7	4ft
75342	LED15T8/L48/DIM/850/SUB/G7	4ft

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

Wiring Diagrams

QHE LED 1 x T8

QHE LED 2 x T8

QHE LED 3 x T8

QHE LED 4 x 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"

Wiring:

Leads only

(no connectors provided)

Product Weight:

14 oz each (approx.)

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 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)

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 the warranty section of www.osram.us/warranty.

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