

QUICKTRONIC® QHE LED T8

Universal Voltage Systems

Low Power LED System



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.

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:

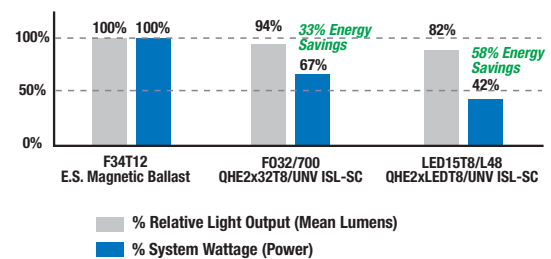
- 1. Optimized design for SubstiTUBE LED T8**
 - Up to 38% in energy savings compared to standard T8 Fluorescent systems
 - Maximum energy savings when compared to F34T12 magnetically ballasted systems
- 2. Parallel Circuitry:** keeps remaining LED T8 lit if one or more go out.
- 3. Banded Packaging**
 - 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.

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%

OSRAM

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

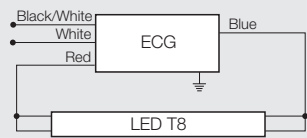
Item Number	Electronic Control Gear (ECG)	Input Current (AMPS)	SubstiTUBE LED T8	No. of LED T8	System Lumens (lm)	Input Power (W)	System Efficacy (lm/W)
75307	QHE1XLEDT8/UNV ISL-SC	0.13 / 0.06	LED15T8/L48/DIM/G6	1	1850	15	123
		0.13 / 0.06	LED15T8/L48/G5	1	1900	15	127
		0.11 / 0.05	LED12T8/L36/G5	1	1350	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.

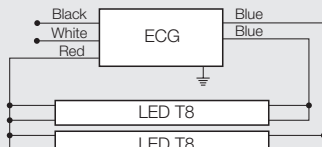
Item No.	LED T8 Description	Length	Item No.	LED T8 Description	Length
75181	LED15T8/L48/F/830/SUB/G5	4ft	75286	LED15T8/L48/DIM/830/SUB/G6	4ft
75182	LED15T8/L48/F/835/SUB/G5	4ft	75287	LED15T8/L48/DIM/835/SUB/G6	4ft
75183	LED15T8/L48/F/841/SUB/G5	4ft	75288	LED15T8/L48/DIM/841/SUB/G6	4ft
75184	LED15T8/L48/F/850/SUB/G5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

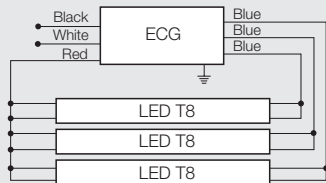
Wiring Diagrams



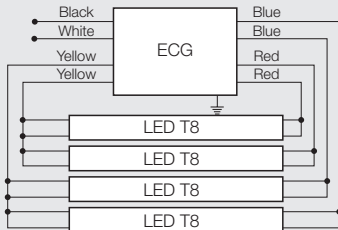
QHE LED 1x32



QHE LED 2x32



QHE LED 3x32



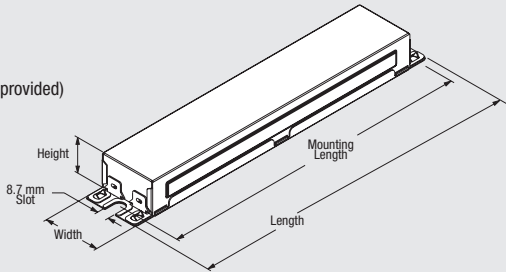
QHE LED 4x32

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 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 LED285.

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

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QHE LED T8 ISL