

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.

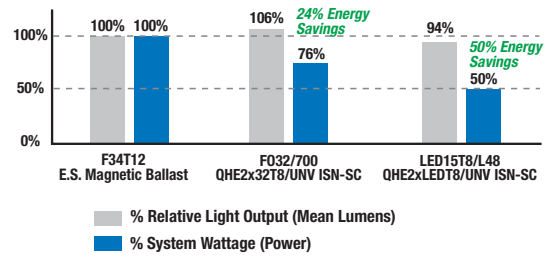


OSRAM QUICKTRONIC High Efficiency LED T8 (QHE LED) systems are covered up to 8 years by the SubstiTRONIC™ warranty, the most comprehensive LED system warranty in the industry.

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/G5	1	2200	18	122
		0.13 / 0.06	LED12T8/L36/G5	1	1650	15	114
		0.09 / 0.04	LED08T8/L24/G5	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/G5	2	4400	36	122
		0.24 / 0.11	LED12T8/L36/G5	2	3200	28	114
		0.17 / 0.08	LED08T8/L24/G5	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/G5	3	6400	53	122
		0.35 / 0.16	LED12T8/L36/G5	3	4650	41	113
		0.26 / 0.11	LED08T8/L24/G5	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/G5	4	8500	70	122
		0.48 / 0.21	LED12T8/L36/G5	4	6300	56	113
		0.34 / 0.16	LED08T8/L24/G5	4	4350	40	110

Use only with SubstiTUBE IPS LED T8.

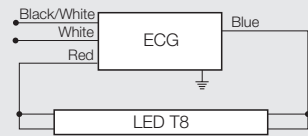
Item No.	LED T8 Description	Length	Item No.	LED T8 Description	Length
75181	LED15T8/L48/F/830/SUB/G5	4ft	75286	LED15T8/L48/DIM/830/SUB/G6	4ft
75182	LED15T8/L48/F/835/SUB/G5	4ft	75287	LED15T8/L48/DIM/835/SUB/G6	4ft
75183	LED15T8/L48/F/841/SUB/G5	4ft	75288	LED15T8/L48/DIM/841/SUB/G6	4ft
75184	LED15T8/L48/F/850/SUB/G5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

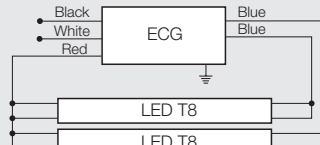
Item No.	LED T8 Description	Shape
75141	LED15T8/U/F/830/SUB/G5	U-bend
75142	LED15T8/U/F/835/SUB/G5	U-bend
75143	LED15T8/U/F/841/SUB/G5	U-bend
75145	LED15T8/U/F/850/SUB/G5	U-bend

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

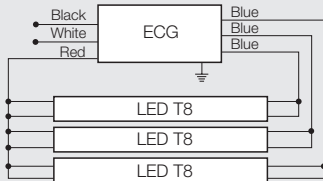
Wiring Diagrams



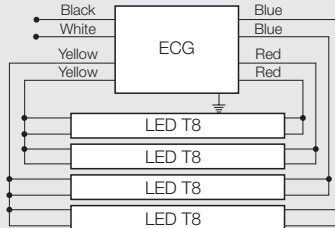
QHE LED 1x32



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:

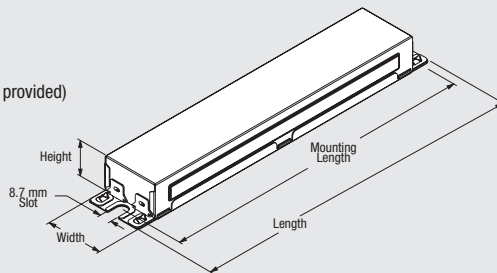
Overall: 9.5" L x 1.68" W x 1.18" H
Mounting: 8.90"

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: 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