

QUICKTRONIC® QHE LED T8 G2

Universal Voltage Systems

Low Power LED System



LED T8 / Electronic Control Gear Guide

LED15T8 SubstiTUBE® LED T8 Lamps
 1-lamp QHE 1xLEDT8/UNV-ISL-SC-G2
 2-lamp QHE 2xLEDT8/UNV-ISL-SC G2
 3-lamp QHE 3xLEDT8/UNV-ISL-SC G2
 4-lamp QHE 4xLEDT8/UNV-ISL-SC G2

Key System Features

- Up to 142 LPW (lumens/watt) with SubstiTUBE LED T8
- High system efficacy
- Lowest power LED T8 Systems
- Universal voltage (120-277)
- Eliminates "wrong voltage" errors
- Small can enclosure size
- Up to 67% 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
- Parallel Circuitry: keeps remaining LED T8 lit if one or more go out

Application Information

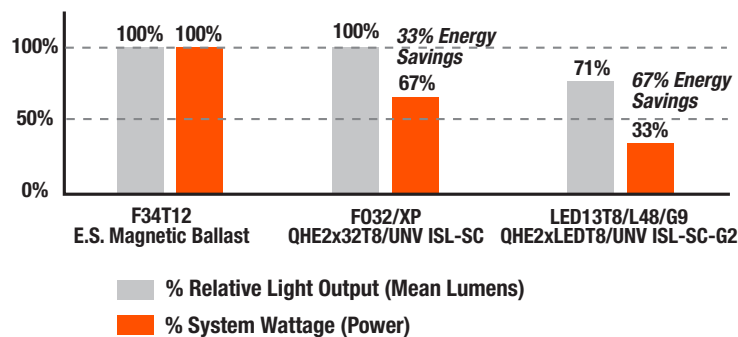
OSRAM QUICKTRONIC QHE LED T8 G2 are ideally suited for:

- Any applications where the lowest power LED T8 systems are needed for maximum energy savings
- Commercial and Retail
- Energy Management
- Energy Retrofits
- Hospitality and Institutional
- New Construction

OSRAM QUICKTRONIC QHE LED T8 G2 system advantages:

- System meets UL Type C
- Utilizes OSRAM No SNAP BACK technology
- System upgrade eliminates the ability to operate T8/T12 fluorescent technology
- Permanent linear LED T8 retrofit solution
- Offers additional energy savings from 3% up to 7%* when compared to existing 1-4 lamp T8 linear LED and standard ballast retrofit system
- Up to 50% in energy savings compared to standard T8 fluorescent systems; up to 67% in energy savings compared to F34T12 magnetically ballasted systems
- Maximize utility rebates
- Functional design guarantees future LED T8 system upgrades as a low cost option
- Covered by up to 8 years under the SubstiTRONIC™ warranty

*The additional 6% energy savings is based on the LED13T8/L48/G9 – QHE4xLEDT8/UNV ISL-SC-G2 system data.



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/XP – QHE2x32T8/UNV ISL-SC	48	4680	98	100%	33%
LED13T8/L48/G9 – QHE2xLEDT8/UNV ISL-SC-G2	24	3300	138	71%	67%

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
50534	QHE1XLEDT8/UNV ISL-SC G2	0.10/0.05	LED13T8/L48/FG/DIM/G9	1	1650	12	138	N
		0.09/0.04	LED10T8/L48/FG/G9	1	1320	10.5	126	N
		0.12/0.05	LED13T8/L48/DIM/G8	1	1850	14	132	N
		0.10/0.04	LED10T8/L48/DIM/G7	1	1600	12	133	N
50535	QHE2XLEDT8/UNV ISL-SC G2	0.20/0.09	LED13T8/L48/FG/DIM/G9	2	3300	24	138	Y
		0.18/0.08	LED10T8/L48/FG/G9	2	2640	21	126	N
		0.23/0.10	LED13T8/L48/DIM/G8	2	3700	27	137	Y
		0.18/0.08	LED10T8/L48/DIM/G7	2	2900	22	132	N
50536	QHE3XLEDT8/UNV ISL-SC G2	0.30/0.14	LED13T8/L48/FG/DIM/G9	3	5100	36	142	Y
		0.27/0.12	LED10T8/L48/FG/G9	3	3960	31.5	126	N
		0.33/0.14	LED13T8/L48/DIM/G8	3	5300	39	136	Y
		0.28/0.12	LED10T8/L48/DIM/G7	3	4350	33	132	N
50537	QHE4XLEDT8/UNV ISL-SC G2	0.40/0.18	LED13T8/L48/FG/DIM/G9	4	6800	48	142	Y
		0.35/0.16	LED10T8/L48/FG/G9	4	5280	42	126	N
		0.42/0.18	LED13T8/L48/DIM/G8	4	6800	50	136	N
		0.36/0.16	LED10T8/L48/DIM/G7	4	5600	43	130	N

*Distributor-friendly packaging and banded lead wires

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:

13 oz each (approx.)

Wiring:

Leads only

(no connectors provided)

Input End Output End

Height Tc Point

Mounting Length Length

Width Input Slot (8.7 mm)

0.59" (15mm) 1.77" (45mm)

1.52" (38.65mm) 0.93" (23.70mm)

Specification Data

Type
Catalog #
Project
Comments
Prepared by

Performance Guide

Data based upon SubstiTUBE® LED T8 and QHE LED T8 G2 Electronic Control Gear.

Specifications

System Output: Low Power
Circuit Type: Parallel
Ambient Operating Temperature: -4°F to 122°F (-20°C to 50°C)
70°C Max Case Temperature
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
FCC 47CFR Part 15 Non-Consumer
Class A Sound Rating
RoHS Compliant¹
Transient Protection: ANSI C62.41 Cat. A, 2.5kV
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 T8 G2 products are covered up to 8 years by the SubstiTRONIC™ (LED285) 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.

Ordering Guide

Item Number	50534	QHE	1 x LEDT8	/ UNV	ISL - SC - G2	Generation 2
QUICKTRONIC High Efficiency						Case Size
Number of LED T8						Low Power System
SubstiTUBE LEDT8						Line Voltage

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