

QUICKTRONIC® QHE LED T8 G2

Universal Voltage Systems

Normal Power LED System



LED T8 / Electronic Control Gear Guide

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

Key System Features

- Up to 148 LPW (lumens/watt) with SubstiTUBE LED T8
- High system efficacy
- Normal power LED T8 Systems
- Universal voltage (120-277)
- Eliminates “wrong voltage” errors
- Small can enclosure size
- Up to 60% 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

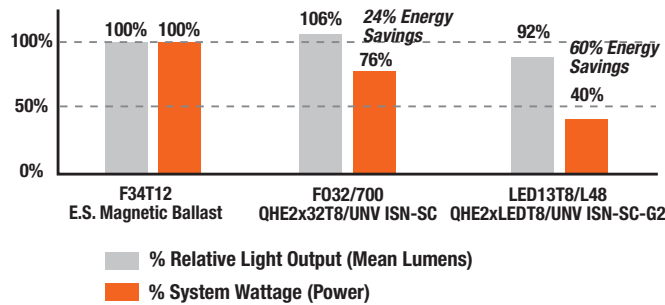
OSRAM QUICKTRONIC QHE LED T8 G2 are ideally suited for:

- Any applications where 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 2% up to 9%* when compared to existing 1-4 lamp 13W T8 linear LED and standard ballast retrofit system
- Up to 47% in energy savings compared to standard T8 fluorescent systems; up to 60% 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 9% energy savings is based on the LED13T8/L48 – QHE2xLEDT8/UNV ISN-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
F032/700 – QHE2x32T8/UNV ISN-SC	55	4930	90	106%	24%
LED13T8/L48/DIM – QHE2xLEDT8/UNV ISN-SC-G2	29	4300	148	92%	76%

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

Specification Data

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
50544	QHE1XLEDT8/UNV ISN-SC G2	0.13/0.06	LED13T8/L48/DIM/G8	1	2150	15	143	N
		0.11/0.05	LED10T8/L48/DIM/G7	1	1800	13	138	N
50545	QHE2XLEDT8/UNV ISN-SC G2	0.24/0.10	LED13T8/L48/DIM/G8	2	4300	29	148	Y
		0.22/0.09	LED10T8/L48/DIM/G7	2	3500	26	135	N
50546	QHE3XLEDT8/UNV ISN-SC G2	0.37/0.16	LED13T8/L48/DIM/G8	3	6400	44	146	Y
		0.31/0.14	LED10T8/L48/DIM/G7	3	5200	37.5	138	N
50547	QHE4XLEDT8/UNV ISN-SC G2	0.48/0.21	LED13T8/L48/DIM/G8	4	8500	58	147	Y
		0.42/0.18	LED10T8/L48/DIM/G7	4	7000	50	140	N

*Distributor-friendly packaging and banded lead wires

Use only with SubstiTUBE IPS LED T8*

Item No.	LED T8 Description	Length	Item No.	LED T8 Description	Length
79544	LED10T8/L48/FG/830/SUB/G7	4ft	75508	LED13T8/L48/DIM/830/SUB/G8	4ft
79545	LED10T8/L48/FG/835/SUB/G7	4ft	75509	LED13T8/L48/DIM/835/SUB/G8	4ft
79546	LED10T8/L48/FG/841/SUB/G7	4ft	75510	LED13T8/L48/DIM/841/SUB/G8	4ft
79547	LED10T8/L48/FG/850/SUB/G7	4ft	75511	LED13T8/L48/DIM/850/SUB/G8	4ft

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

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)

Ordering Guide

Item Number **50544** **QHE 1 x LEDT8 / UNV ISN - SC - G2** Generation 2
 QUICKTRONIC High Efficiency Case Size
 Number of LED T8 Normal Power System
 SubstiTUBE LEDT8 Line Voltage

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 Call 1-800-LIGHTBULB for Customer Service

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EC306R1 LDV 11-18

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: Normal 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.

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