



NetLight™ | DRIVER

OVERVIEW

Lumenergi's breakthrough **NetLight Driver** intelligent dimming ballast enables maximum energy and cost savings through dimming and advanced lighting controls. The NetLight Driver's patented and patent-pending technology integrates with Lumenergi's **NetLight Controller™** to provide comprehensive lighting management and significant energy savings.

The NetLight Driver can operate in industry-standard DALI or low voltage 0-10VDC control modes and takes a wide-range of electrical inputs, ranging from 120V to 277V at 50 or 60 Hz. With only two product part numbers handling one to three T8, T5HO, or T5 lamps, the NetLight Driver's flexibility simplifies design and compatibility, reduces stocking costs, simplifies onsite logistics and eliminates installation mistakes.

The NetLight Driver's versatility makes it ideal for large-scale intelligent lighting in both office building and industrial applications, in retrofits or new construction.

Intelligent Dimming Light Ballast

KEY FEATURES

- High ballast factor of 1.2 for widest lamp output range
- Only two part numbers (SKUs) handle most common T8 and T5 lamp types and lamp counts, multi-volt input
- Supports DALI and 0-10V control
- Lamp monitoring and remote diagnostics capability
- Direct connect with occupancy and photo sensors
- Provides 50-70% energy cost-savings when used with Lumenergi lighting controls
- Program start with patent-pending heater controls for superior energy savings and longer lamp life
- 100% fail-safe control (full light output on control disconnect)
- Meets or exceeds high efficiency energy standard
- Single connector design simplifies control wiring installation and helps eliminate mistakes
- 5 year limited warranty

SYSTEM INFORMATION

Technology

Lumenergi's NetLight Driver family features microprocessor technology that provides more performance with less cost, offering a dimming electronic ballast with industry-leading features at a competitive price.

Compatibility

Technologically advanced automatic lamp sensing capability allows a single ballast design to operate a wide range of linear fluorescent T8, T5 and T5HO lamps in 2, 3 and to 4 foot lengths simplifying specification, purchasing, and installation.

Energy Savings

Easily installed in standard lighting fixtures, Lumenergi's intelligent dimming light ballast offers significant basic energy savings compared to older and less efficient fluorescent ballasts. When controlled by the Lumenergi **NetLight Controller**, the NetLight Driver saves even more energy via daylight harvesting, task tuning, scheduling, lumen maintenance, and personal control resulting in 50 to 70% savings.

Diagnostics

With DALI control and communication, each NetLight Driver reports advanced diagnostic information that indicates operational status and lamp condition that is valuable for simplifying system operations and maintenance

APPLICATIONS

The NetLight Driver is suited for retrofit and new construction applications in:

- Commercial
- Institutional
- Retail
- Education
- Hospitality
- Government
- Manufacturing and Distribution
- Airports
- Freight Terminals

LIGHTING MANAGEMENT

Connected to the NetLight Controller, the NetLight Driver supports a wide range of lighting control strategies:

- Daylight harvesting
- Task tuning
- Scheduling
- Lumen maintenance
- Occupancy sensors
- Personal control
- Demand-response load shedding

LAMP GUIDE

T8: 17 to 40W, T5S: 14 to 28W, T5HO 24 to 54W, 1-3 lamps (see table)

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The Lumenergi NetLight Driver is compatible with 0-10V and DALI controllers including Lumenergi's advanced **NetLight Controller**. Please contact Lumenergi for specific information.

0-10 Voltage Control Specs

Two wire polarized control.
Wire as a Class 2 circuit.
Lamp off @ 0-1.0V, 10% @ 1.1-1.4V, 100% @ 10V

DALI Control Specs

Two wire non-polarized control.
Wire as a Class 2 circuit.
DALI compliant.

Auxiliary Low Voltage Power Supply

Source for 12VDC loads.
Output 25mA (continuous), 35mA(max).
Wire as a Class 2 circuit.
Utilize for sensor power, etc.

Supports direct connection of daylight sensor or occupancy sensor when used with DALI and the Lumenergi NetLight Controller.

SPECIFICATIONS

Starting Method: Program Start
Circuit Type: Series Sequential
Lamp Frequency: >42 KHz
Lamp CCF: < 1.5
Minimum Start Temp: 50°F/10°C
Starting Time: 1 second to full output, 2.5 sec to preset dim level at power on
Input Voltages: 120, 200, 220, 240, 250, 277VAC, +/-10%
Input Frequency: 50/60 Hz and DC
THD: <12% @ full output
Power Factor: > 93% @ full output
100% fail-safe: full light output on control disconnect, maximum 3 strike attempts on missing or failed lamp, auto-shutdown on NetLight Driver failure

* Part Number and Description	Input Voltage	Lamp Type	# of Lamps	Ballast Factor (BF max/min)	Input Current @120/277 VAC (Amperes)	Power Input @120/277 VAC (Watts)	Initial Lumens @BF=1	Light Output (lm)	System Efficacy @120/277VAC (lm/W)	Power Factor @120/277VAC (full output)
LDV-FLIB107-01 Intelligent Dimming Ballast	120-277 VAC @50-60 Hz	F40T8 (5 ft)	1	1.2 - 0.1	.43/.18	52/50	3,650	4,380	85/88	.99/.94
			2	1.2 - 0.1	.84/.36	101/100	7,350	8,820	88/88	.99/.97
		F32T8 (4 ft)	1	1.2 - 0.1	.34/.15	41/40	3,000	3,600	89/90	.99/.94
			2	1.2 - 0.1	.67/.29	80/79	6,000	7,200	90/91	.99/.97
		F28T8 (4 ft)	1	1.2 - 0.1	.98/.42	118/116	9,000	10,800	92/93	.99/.99
			2	1.2 - 0.1	.31/.13	37/36	2,750	3,300	89/92	.99/.94
		F25T8 (3 ft)	1	1.2 - 0.1	.58/.24	69/67	5,150	6,180	89/92	.99/.97
			2	1.2 - 0.1	.86/.36	103/100	7,750	9,300	91/92	.99/.99
		F17T8 (2 ft)	1	1.2 - 0.1	.52/.22	62/60	4,600	5,520	89/92	.99/.97
			2	1.2 - 0.1	.77/.33	92/91	6,900	8,280	90/91	.99/.99
		F28T5 (T5 std) (4 ft)	1	1.2 - 0.1	.32/.14	39/38	2,700	3,240	83/85	.99/.93
			2	1.2 - 0.1	.50/.21	57/55	4,050	4,860	85/88	.99/.94
LDV-FLIB107-02 Intelligent Dimming Ballast	120-277 VAC @50-60 Hz	F54T5HO (4 ft)	1	0.9 - 0.1	.57/.24	55/53	5,000	4,500	82/84	.99/.94
			2	0.9 - 0.1	.87/.45	104/103	9,950	8,955	86/87	.99/.97
		F49T5HO (4 ft)	1	0.9 - 0.1	.42/.18	50/49	5,000	4,500	90/92	.99/.97
			2	0.9 - 0.1	.80/.34	96/94	10,000	9,000	94/96	.99/.96
		F39T5HO (3 ft)	1	1.0 - 0.1	.38/.16	45/44	3,500	3,500	78/80	.99/.98
			2	1.0 - 0.1	.72/.31	86/85	7,000	7,000	82/83	.99/.98
		F24T5HO (2 ft)	1	1.1 - 0.1	.49/.21	59/58	4,400	4,840	82/84	.99/.97
			2	1.1 - 0.1	.72/.31	86/85	6,660	7,326	85/86	.99/.98
		F21T5 (T5 std) (3 ft)	1	1.2 - 0.1	.47/.20	56/55	4,200	5,040	90/92	.99/.97
			2	1.2 - 0.1	.68/.29	82/80	6,300	7,560	92/94	.99/.98
		F14T5 (T5 std) (2 ft)	1	1.2 - 0.15	.31/.13	37/35	2,500	3,000	81/86	.99/.97
			2	1.2 - 0.15	.42/.18	50/49	3,750	4,500	90/92	.99/.98

* Lumenergi reserves the right to change specification without notice.



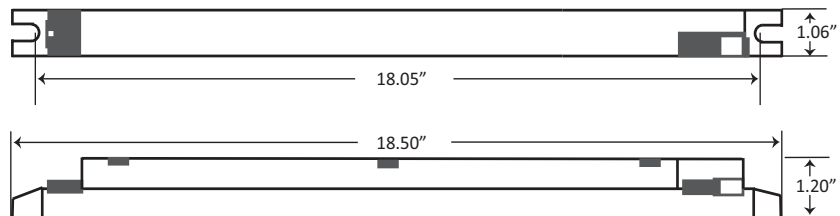
UL Listed Class P, Indoor, UL 935
90°C Max Case Temperature
FCC 47CFR Part 18
Meets CEE/NEMA High Performance Commercial Light Systems Initiative
Class A Sound Rating
C62.41 Cat. A Transient Protection
Meets California Title 24

For information on the limited warranty, please contact sales@lumenergi.com. Distributors, please contact partners@lumenergi.com. Specifications +/-10% except where noted and subject to change without notice.

T5/HO pending CEE specification

DOC: M-DS-NETLIGHTDRIVER-110604-2

DIMENSIONS



Overall: 18.05L x 1.06W x 1.20H in.
(457 x 26.8 x 30.6 mm)

Represented By