



## NetLight™ | iB-100

# Intelligent Dimming Light Driver

## OVERVIEW

Lumenergi's breakthrough **NetLight™ iB-100** Intelligent Dimming Light Driver enables maximum energy and cost savings through dimming and advanced lighting controls. The Light Driver's patented technology integrates with Lumenergi's **NetLight Controller** to provide comprehensive lighting management and significant energy savings.

The iB-100 can operate in industry-standard low voltage 0-10VDC or DALI control modes and electrical inputs of 120V and 277V. With a single product handling one to three 32 watt T8 lamps or one to two 25 watt or two 17 watt T8s, the Light Driver's flexibility reduces stocking costs and installation mistakes.

The iB-100 Light Driver's versatility makes it ideal for both office lighting and large-scale intelligent building applications, in retrofits or new construction.

## KEY FEATURES

- High ballast factor of 1.20 for brighter lamp range
- Single part number (SKU) handles two common voltages and three common lamp counts
- 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
- Less than 10% THD\*\*
- 100% fail-safe (full light output on control disconnect)
- Wiring scheme similar to non-dimming ballasts with a single connector for all control signals reduces installation mistakes
- 5 year warranty

\* DALI long and short addresses preassigned

\*\* At full power

## SYSTEM INFORMATION

### Technology

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

### Compatibility

Specification, purchasing and installation is simplified because the iB-100 Light Driver works with many 0-10VDC and DALI controls, at line voltages of 120 and 277VAC, and with one to three 32 watt or two to three 25 watt or two 17 watt linear fluorescent T8 lamps, providing smooth dimming to 10% power.

### Diagnostics

With DALI control, each iB-100 Light Driver provides advanced lamp diagnostics to help troubleshoot wiring problems and lamp failures, easing installation, maintenance and operations.

## APPLICATIONS

The iB-100 Light 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 iB-100 Light 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

1-3 T8 lamps at 32 watts, 2-3 T8 lamps at 25 watts, 2 lamps at 17 watts

Lumenergi, Inc.  
8371 Central Ave, Unit B  
Newark, California 94560

Phone (510) 744.1000  
Fax (510) 574.7440

www.lumenergi.com  
sales@lumenergi.com

The Lumenergi iB-100 Light Driver is compatible with many 0-10V and DALI controllers including Lumenergi's advanced NetLight Controller system. Please contact Lumenergi for specific information.

**Low Voltage Control Specs**  
Sources 15mA at 12VDC.  
Wire as a Class 2 circuit.

### DALI Control Specs

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

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

Item Number and Description	Lamp Type	# of Lamps	Ballast Factor (BF)	Input Current @120/ 277 VAC (Amperes)	Power Input @120/ 277 VAC (Watts)	Light Output (Lumens)	System Efficacy @120/ 277VAC (lm/W)	Power Factor @120/ 277VAC
LDVFLIB100 Intelligent Dimming Light Driver 120-277VAC	F32T8	1	1.2	.33/.16	40/40	3,540	88/88	.99/.92
		2	1.2	.63/.28	76/75	7,080	94/94	.99/.97
		3	1.2	.95/.41	113/112	10,620	94/95	.99/.99
	F25T8 (3 ft)	1	1.2	.28/.12	34/33	2,760	82/84	.99/.96
		2	1.2	.50/.22	63/62	5,520	88/89	.99/.97
		3	1.2	.77/.33	92/91	8,280	90/91	.99/.99
	F17T8	2	1.2	.34/.14	41/40	3,540	86/89	.99/.93
LDVFLIB100-02	F17T8	3	1.2	.508/.217	61/60	4950	81/83	.98/.98

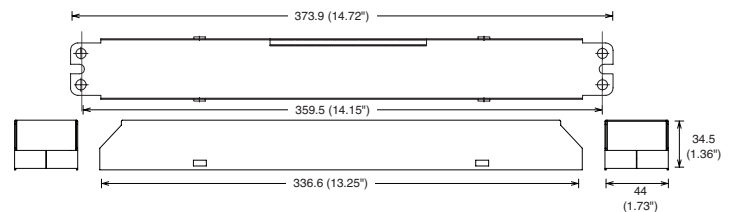
\* Lumenergi reserves the right to change specification without notice.

## SPECIFICATIONS

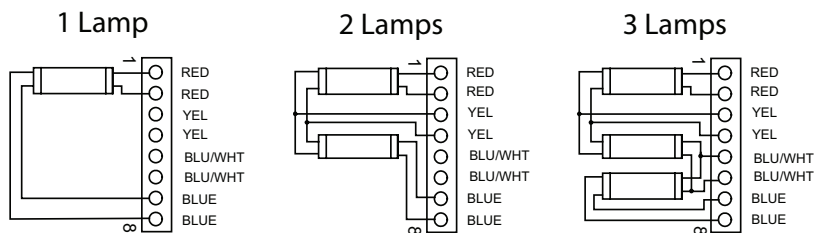
**Starting Method:** Program Start  
**Circuit Type:** Series Sequence  
**Lamp Frequency:** >50 KHz  
**Lamp CCF:** < 1.5 for >= 30 ms  
**Minimum Start Temp:** 50°F/10°C  
**Input Voltages:** 120, 277VAC  
**Input Frequency:** 60 Hz  
**THD:** < 10% @ full output  
**Power Factor:** > 92% @ full output  
**100% Fail-Safe:** full light output on control disconnect, maximum 3 strike attempts on missing or failed lamp, auto-shutdown on Light Driver failure  
UL Listed Class P, Indoor  
FCC 47CFR Part 18 (Non-Consumer)  
Meets CEE/NEMA High Performance Commercial Light Systems Initiative  
Class A Sound Rating  
C62.41 Cat. A Transient Protection  
Meets energy codes

## DIMENSIONS

Overall: 14.7L x 1.7W x 1.4H in.  
(375 x 43.8 x 34.5 mm)  
Mounting Length: 14.2 in. (360 mm)  
Weight: 1.75 lbs each (0.8 kg)

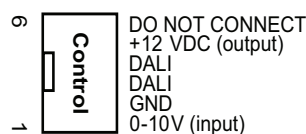


## WIRING INFORMATION



## POWER AND CONTROL LINE

- 1 ○ Line
- 2 ○ Neutral
- 3 ○ N/C
- 4 ○ N/C



Represented By