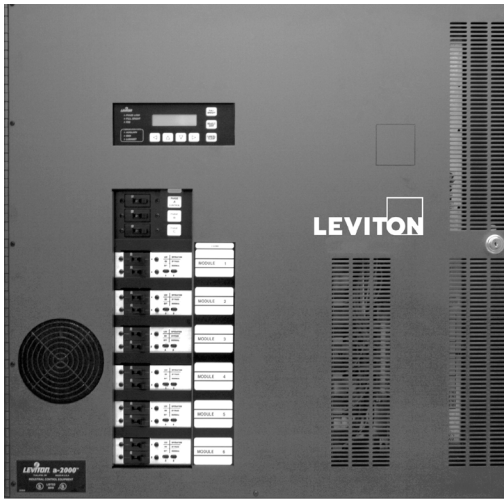


a-2000® 240V Cabinets

Dimming performance and precision control



DESCRIPTION

The a-2000® is a compact, high-performance 240V dimming cabinet that combines theatrical grade performance with the ability to control a wide variety of architectural load types. It is an ideal solution for applications such as cafeterias, multi-purpose rooms, ballrooms and all spaces requiring a single dimming source for a broad range of loads.

The a-2000's modular design enables rapid servicing of both dimming modules and control electronics. The shallow enclosure can be easily flush-mounted and fits within two stud widths. The a-2000 digital module cabinets are easy to install and work with virtually all types of lighting including LED. This state-of-the-art cabinet integrates seamlessly with preset or manual controls, building automation, daylight harvesting and time clock systems. The a-2000 is a highly versatile dimming platform supporting a broad array of control requirements.

FEATURES

- Fully programmable from front panel
- Plug-in dimmer modules for easy maintenance
- Communication protocols and inputs: DMX512, Luma-Net III, full bright and emergency, load shed, phase loss contact closure
- Capacity of up to 24 dimmer circuits
- Each dimmer channel rated to 20A continuous (20A modules only)
- All load types supported - see Dimmer Module data sheet for more information

- Rugged dual-SCR dimmer circuitry for superior dimming performance and reliability over triac dimmers
- Individual per-dimmer bypass worklight functions
- Restoration feature restores the last lighting look in the event of power failures
- Lifetime non-volatile memory
- Super-quiet, redundant ball-bearing fan design for added reliability
- Contractor-friendly design for easy installation with a large wiring space
- Compact 30 3/8-inch cabinet width holds up to 24 dimmer circuits and fits between two stud widths
- Surface or recessed mounting
- Top, bottom or side feed

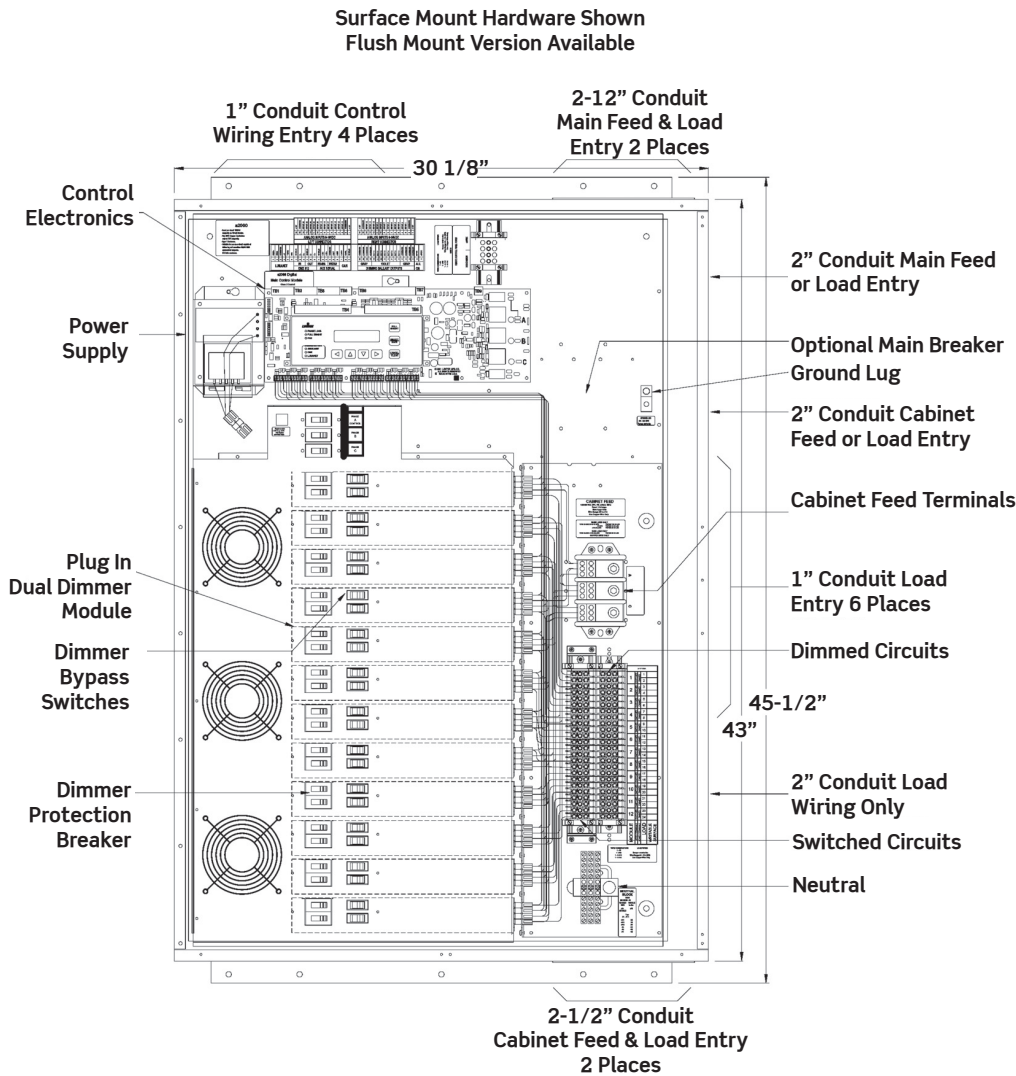
APPLICATIONS

- Office spaces
- Cafeterias
- Ballrooms
- Auditoriums
- Houses of worship
- Lecture halls
- Conference rooms
- Restaurants
- Multi-purpose rooms
- Spaces requiring a single dimming source for a broad range of loads
- Spaces requiring daylight harvesting control

Leviton Mfg. Co., Inc. Lighting & Energy Solutions

PRODUCT DATA

WIRING DIAGRAM



SPECIFICATIONS

ENVIRONMENTAL

- Enclosure: NEMA Type 1, #14 U.S. gauge steel, indoors only
- Operating Temperature: 32-104°F (0-40°C)
- Relative Humidity: Less than 90% non-condensing
- Mounting: Surface or flush

COMPATIBLE CONTROLS

- Dimensions® D8000
- Dimensions D4200
- DMX Controllers
- Contact factory for other compatibility options

STANDARDS

- Backed by limited two-year warranty

POWER

- Input power: 220/230/240V
- Three phase
- All voltage 50/60 Hz, phase-to-neutral
- Branch circuit breakers: fully magnetic
- Per circuit bypass switches

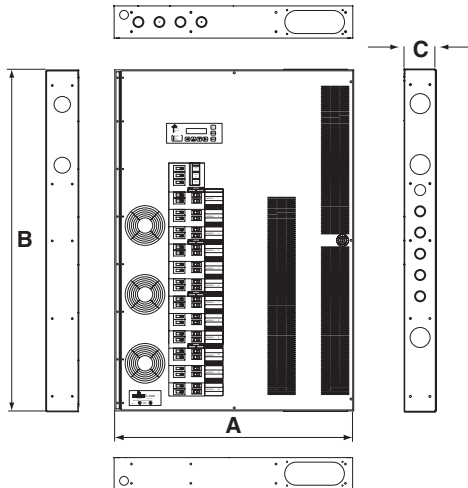
SOURCES/LOAD TYPES*

- Incandescent (halogen)/tungsten
- Magnetic low voltage
- 0-10VDC fluorescent dimming ballasts and LED dimming driver (8 per control module)
- HID (non-dim only)
- Electronic low-voltage (factory approved transformer)**

* Refer to Dimmer Module data sheet

** May require additional equipment

DIMENSIONS



CABINET	A*	B*	C*
12	30.12" (765.04mm)	29.87" (758.69mm)	4.12" (104.64mm)
24	30.12" (765.04mm)	43" (1092.2mm)	4.12" (104.64mm)

*Flush trim adds 2" (50.8mm) to overall length and width

HEAT OUTPUT

# OF CHANNELS	MAXIMUM* (BTUs/HOUR)
6	1179
12	2358
18	3537
24	4715

*Assumes connected load of 1920W w/circuit in continuous use, 97% dimmer efficiency

FEED CAPACITY

CABINETS WITH MAIN LUGS			
CABINET SIZE	PHASE	FEED SIZE	WIRE SIZE
12	3	80A	2.5 - 60mm ²
24	3	175A	95 - 16mm ²

Contact factory for main circuit breaker options and availability

SPECIFICATIONS

CABINET WEIGHT		
CABINET SIZE	SHIPPING WEIGHT*	INSTALLED WEIGHT*
12	145 lbs (66 kg)	126 lbs (57.4 kg)
24	185 lbs (84.2 kg)	155 lbs (70.6 kg)

*Dimmer modules not included. Dimmer modules weigh approximately 3.25 lbs (1.25 kg).

ORDERING INFORMATION

CAT. NO.	DESCRIPTION
A2D3L-412	a-2000 240V 12 channel cabinet
A2D3L-424	a-2000 240V 24 channel cabinet
A2KFL-012	a-2000 flush mount trim kit for a 12 channel cabinet
A2KFL-024	a-2000 flush mount trim kit for a 24 channel cabinet

Leviton Mfg. Co., Inc. Lighting & Energy Solutions

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