

LIGHTOLIER CONTROLS

OPTIO IGBT HIGH PERFORMANCE DIMMING MODULE

OPT20HP: DUAL 2000W 120V
(OPT15HP: DUAL 1800W 120V)

Project:

Location/Type:

Description

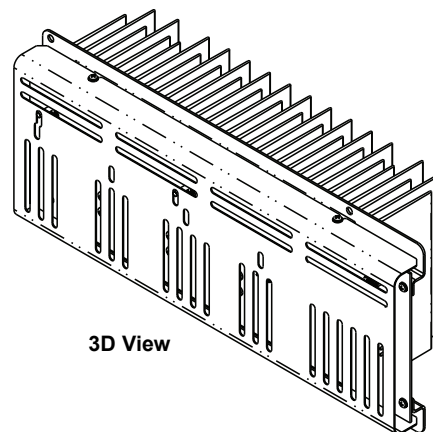
Optio OPT20HP and OPT15HP Dimmer Modules contain two high-performance IGBT dimmers. IGBT Dimming technology provides quiet lamps, quiet dimming modules without buzzing, long lamp life, higher energy efficiency, less waste heat, and short circuit immunity. Each dimmer employs solid-state Insulated Gate Bipolar Transistor (IGBT) devices which are rated at no less than triple the dimmer's rated capacity. They are c.U.L. recognized and rated for operation at 120VAC, with a capacity of 2000 watts per dimmer (OPT15HP module is rated for 1800 watts per dimmer). The module is ruggedly designed, fully enclosed module. Modules are easily installed into an Optio Lighting Control Panel, and may be easily interchanged with other Optio modules.

Features

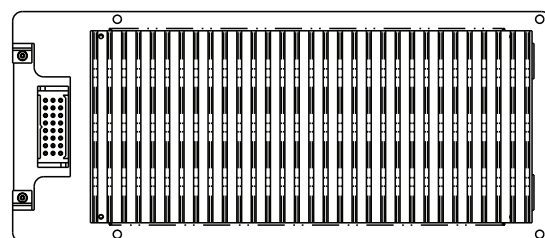
- Two Circuits rated at 2000 watts each (OPT15HP rated for 1800 watts per dimmer)
- Designed to dim incandescent, inductive, electronic low voltage and magnetic low voltage loads
- Local 'Focus' button allows manual operation of dimmer circuit.
- Dual-color LED indicators provide status information
- Modular construction with plug-in capability
- Mounts into any Optio 120VAC Lighting Control Panel

Ordering Info

OPT20HP	Optio IGBT Dimming Module, Dual 2000 Watts, 120VAC
OPT15HP	Optio IGBT Dimming Module, Dual 1800 Watts, 120VAC (15A Circuit Breaker)



3D View



Rear View



Specifications

The Optio OPT20HP IGBT Dimmer Module shall contain two solid-state dimmers rated for 2000 watts each (OPT15HP dimmers are rated for 1800 watts each). The dimmers shall be UL and cUL recognized, and approved to control incandescent, inductive, electronic low voltage and magnetic low voltage loads. Dimmer modules shall be constructed using two insulated gate bipolar transistors placed in a back-to-back configuration for each circuit, and shall be capable of handling current rated for triple the dimmer's load rating.

The Optio OPT20HP/OPT15HP IGBT Dimmer Module shall provide a locally mounted 'Focus' button for each dimmer. Tapping the Focus button shall turn the dimmer to full on, tapping the Focus button a second time shall turn the dimmer to off. Pushing and holding the Focus button will ramp the dimmer output up, and shall stop ramping and hold position when the Focus button is released. The Dimmer Module shall contain a dual-color LED display to indicate dimmer status and error conditions.

The Optio OPT20HP/OPT15HP Dimmer Module shall be constructed with a robust anodized aluminum heatsink, and painted metal cover. Optio Dimmer Modules shall be capable of installation into any slot in any Optio Lighting Control Panel of the appropriate operating voltage.

Electrical

Operating Voltage: 120VAC, 50/60Hz

Number of Dimmers per module: 2

Maximum Load Wattage:

2000 Watts per dimmer (OPT20HP)

1800 Watts per dimmer (OPT15HP 15A Circuit Breaker)

Compatible Load Type(s):

Incandescent, Inductive, Electronic Low Voltage, Magnetic Low Voltage

Efficiency: >98%

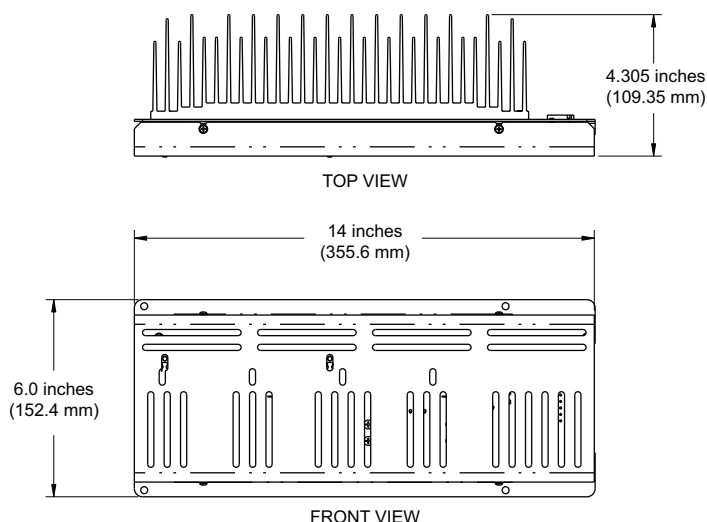
Filtering (rise-time): 800µs (independent of load size or type)

Operating Temperature Range: 0-40°C

Operating Relative Humidity: 10-90% (non-condensing)



Dimensions



Installation in an Optio Lighting Control Panel

NOTE: The Optio 9-Module Panel model is used to illustrate the installation, however, the module installation is identical for all Optio Panel models.

