

LIGHTOLIER CONTROLS

OPTIO IGBT HIGH PERFORMANCE LIGHTING CONTROL PANEL 6-MODULE 120V

Project:

Location/Type:

Description

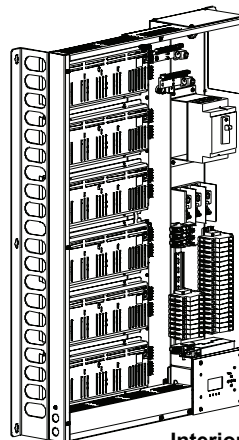
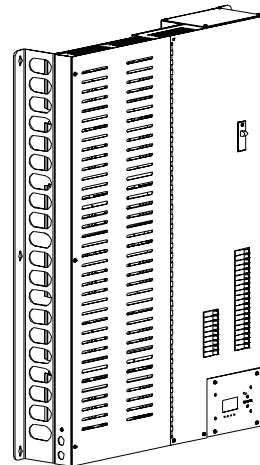
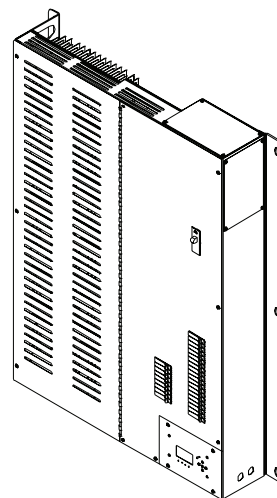
The Lightolier® Controls Optio™ OPT6120 is a 6-module, 120V IGBT high-performance wall-mounted lighting control panel. The OPT6120 panel offers a wide range of dimming modules to accommodate any lighting control application. From incandescent to fluorescent to non-dim loads, the Optio™ panel accepts any combination or mixture of dimming and relay modules to fit any need.

Based on the patented Insulated Gate Bipolar Transistor (IGBT) technology, the OPT6120 provides significant performance over conventional SCR-based dimming equipment. Since IGBT dimmers do not use filter chokes, the system is virtually silent, eliminating vibrations, buzzing, and other mechanical noises. Overall, IGBT dimmers are more efficient (a maximum of 2.5 voltage drop at full), lightweight (less than 2 pounds per dimmer), and produce less heat than conventional dimmers. *

The OPT6120 panel contains an on-board, intelligent microprocessor that adjusts and maintains proper voltage and current in response to changes detected in the load and electrical service, which serves to extend lamp life. The microprocessor also automatically suppresses surges, and protects against short circuits. IGBT dimmers significantly reduce neutral harmonics when configured to operate in LOW HARM® mode, making them one of the lowest harmonic generating dimmers available. *

Features

- Up to 24 circuits per panel
- Chokeless IGBT dimming technology - no magnetics, no noise, less wasted energy and heat *
- Short Circuit and Circuit Overload protection *
- Modular design - install lighting-control specific modules (Dual or Quad circuit modules) to fit the load
- Dimmer modules support incandescent, neon, cold cathode, magnetic low voltage, electronic low voltage, PowerSpec HDE, Mark 10, and 3-wire phase controlled dimming fluorescent
- True relay modules available
- 800 μ s Reverse phase or forward phase control - quiet loads (IGBT Modules) *
- Controls loads as little as 0.5W to full load *
- Absolute voltage and current regulation - longer lamp life *
- Communications supported - Lightolier Controls Lytemode ILS and DMX512
- Optional Pathport interface
- Optional internal main breaker
- Compatible with Guardian and LightLynx software
- Built-in LCD control panel for set-up and diagnostics
- LOW HARM mode - reduces harmonic neutral currents *
- Compact construction - installs virtually anywhere
- Natural convection cooling: no cooling fans or air filters
- Solid state operation, no periodical maintenance concerns *
- Shorting plugs on all circuits for initial circuit testing and verification
- UL and cUL listed
- UL924 listed for use in emergency lighting systems
- Optional bracket for mounting on 32 inch centers available



Interior View



Made in U.S.A.

For technical/sales assistance, call: 1-800-526-2731

www.philipslightingcontrols.com P/N 87-0591

Specifications

Number of Circuits:	Up to 24
Maximum Output Voltage:	120VAC
Min./Max. Dimmer Load:	0.5W to Full Load (Rating on Dimmer) *
Transition Time (IGBT):	800 μ s (Forward or Reverse Phase) *
Supply Voltage:	120VAC, Three Phase (4 Wire)
Frequency:	50 / 60 Hz
Load Connection:	Spring Cage Connector
Line Connection:	Distribution Block
Control Communications:	Lightolier Controls ILS and DMX512
Circuit Protection:	Fully Magnetic Circuit Breakers
Cooling:	Natural Convection Cooling
Ambient Temperature:	0 to 40° C
Relative Humidity:	5 to 95% Non-condensing
Height:	42-1/2 Inches
Width:	31-1/2 Inches
Depth:	7-5/8 Inches

Ordering Info

OPT6120 Optio Dimming Panel, 6-Space, 120 Volt AC

Dual Circuit Modules:

OPT20HP	Dual 2000VA IGBT Dimmer Module, 120V
OPT22400	Dual 2400VA SCR Inductive Dimmer Module, 120V
OPT22400HDF	Dual 2400VA PowerSpec HDF Dimmer Module, 120V
OPT21800EB	Dual 1800VA Advance Mark 10 Dimmer Module, 120V
OPT22400RL	Dual 2400W Relay Module, 120V
OPT22000F	Dual 2000VA Magnetic Fluorescent Module, 120V

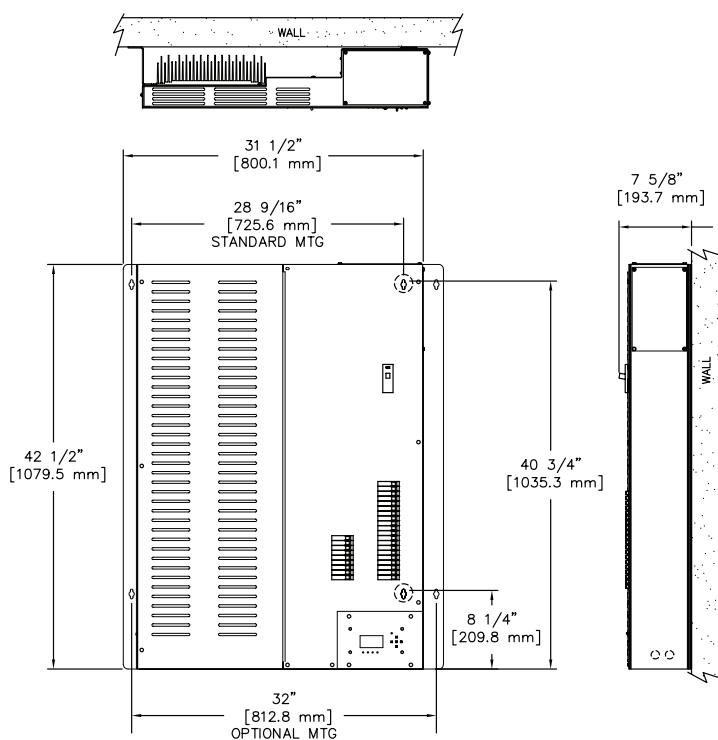
Quad Circuit Modules:

OPT41000HP	Quad 1000W IGBT Dimmer Module, 120V
OPT42000	Quad 2000W SCR Dimmer Module, 120V
OPT41800EB	Quad 1800VA Advance Mark 10 Dimmer Module, 120V
OPT42400HDF	Quad 2400VA PowerSpec HDF Dimmer Module, 120V
OPT42400RL	Quad 2400W Relay Module, 120V

Accessories/Options:

OPTBLANK	Blank Cover for Open Module Space
OPTBRKT6	Optional Mounting Bracket for 32 inch centers

Dimensions



Configuration

Optio Lighting Control Panels are custom configured at the factory to meet the requirements of each application. Optio Lighting Control Panels are available with 15 or 20A Circuit Breakers, Master or Auxiliary configurations, internal Pathport nodes, internal main circuit breakers, and other options. For ordering information, please consult with your Lightolier Controls sales office.

* Features and Benefits marked with this symbol available only with IGBT dimming modules. The addition of SCR dimming modules to an Optio Lighting Control Panel may negate some or all of these features and benefits.

