capio plus

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Specifications

Capio Plus IGBT Intelligent Dimmer Rack

Model Number ILSCP48 Max. Dimmers/Spaces 48 x 20 Amp circuits 96 x 20 Amp circuits 46"H x 14¼"W x 26"D 82"H x 141/4" W x 26"D Rack Size 117cm x 36cm x 65cm 210cm x 36cm x 65cm 135 lbs. (empty) / 205 lbs. (full) 215 lbs. (empty) / 350 lbs. (full) Rack Weight 91 kg (empty) / 157 kg (full) 60 kg (empty) / 93 kg (full) 2" Right 2" Right 30.48cm Top 30.48cm Top 6cm Right 6cm Right

Rack Features

 Construction
 Black textured steel, ample wiring space, feed wiring from top, bottom, or sides

 Cooling
 Standard 10" Fan, Optional Fan Muffler or Quiet Fan Kit

 Control
 Accepts Lytemode®, USITT DMX512, and Pathport® DMX Management over Ethernet protocols

 Feed Options
 800 Amp (ILSCP48) & 400 Amp (ILSCP24) feed lugs standard.

Optional Ground Bus available.

Intelligent

Efficient

Load Types

Optional Rack-to-rack Busing kits available.

Access Locking door with integral electrostatic air-filter

IGBT Dimmer Module Features

IGBT Microprocessor controlled dimmer circuit makes automatic adjustments to voltage and the flow of current, in response to fluctuations in the load/electrical service. Intelligent dimming protects property and life as it suppresses surges, protects against shorts, and extends the service life of expensive lamps.

800µS Voltage transition time with operation in either Reverse Phase Control (RPC)

or Forward Phase Control (FPC) output waveform regardless of load size. IGBT dimming circuits contain no magnetic chokes and produce no mechanical noise.

Low Harm Mode™ A patented process to control excess harmonic currents common to all phase control dimming systems. Reduces noise in electrical conduit/panel, and reduces

overloading of feed neutral conductors.

Chokeless design provides higher voltages to the lamp to maximize lamp

performance, and generates less heat in the dimmer rack. Capio Plus drops only 2.5 volts or less per circuit, regardless of load size or type.

Status/Control Dimming modules provide visual indication of dimmer status using dual color indicators. The circuit can be turned On/Off or dimmed up using the front

panel buttons. Convenient for luminaire testing, focus, and setup. Incandescent, Magnetic or Electronic Low Voltage, Inductive, Neon,

Cold Cathode, and Fluorescent.

Modules

CP20HP High Performance Dual 2400 watt dimming module CP15HP High Performance Dual 1800 watt dimming module CP50 Single 6000 watt dimming module CP20HDF Single 2400 watt PowerSpec HDF dimming module Single 1800 watt PowerSpec HDF dimming module CP20ND Dual 2400 watt Non-Dim module CP15ND Dual 1800 watt Non-Dim module CP20CC Dual 2400 watt Constant Circuit module CP15CC Dual 1800 watt Constant Circuit module **CPRCM** Capio Plus Rack Control Module ILSLMPSC Lytemode Architectural Lighting Control Network Power Supply **CPBLANK**



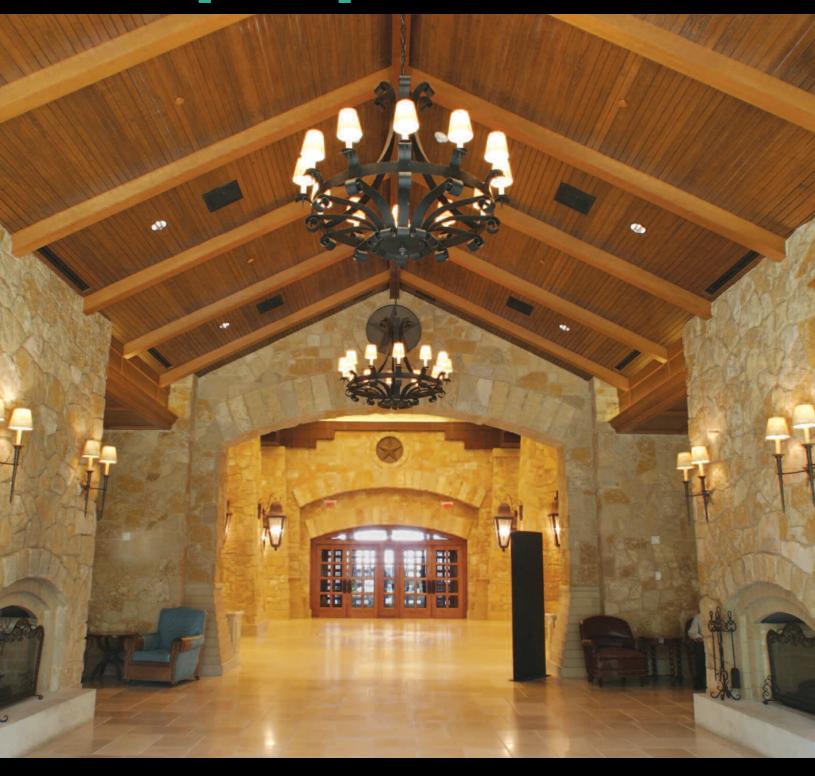






High Density Precision Engineered IGBT Dimmer Rack

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IGBT Technology - Silent & Reliable Performance

Lightolier® Controls is proud to offer Capio Plus™, a high density dimmer rack precision engineered for your higher performance.

As the most advanced dimmer rack system in the industry today, Capio Plus has been specifically engineered to incorporate high-performance components with the proven benefits of the Insulated Gate Bipolar Transistor (IGBT) technology, all while offering exceptionally quiet, reliable and energy efficient rack dimming at an affordable cost.

Innovation

Capio Plus[™] high-density dimmer racks offer an excellent solution for both architectural and entertainment rack dimming applications. The 24 or 48 module dimmer racks provide design flexibility in any size venue, with a variety of load types; and for larger venues multiple dimmer racks may be bused together. Capio Plus highdensity dimmer racks have replaced the conventional Silicon Controlled Rectifier (SCR) inefficient inductors with a patented IGBT dimming circuit. The IGBT devices offer 800µS of rise or fall time for quiet lamp filaments within the space, and can be configured to operate in Forward Phase Control, Reverse Phase Control, or complimentary-phase pairs to reduce neutral harmonics, a potentially catastrophic problem of SCR based dimmers. This patented Low Harm[™] mode is exclusive to IGBT technology. By eliminating the need for an inductor, Capio Plus dimmers operate without the familiar 'buzz' of an SCR dimmer rack, and provide higher output voltages to the load, maximizing the performance of your lamps. Therefore, less wasted energy in the dimmer rack results in less heat generated by the dimmer rack. For the ultimate in dimming performance, installation savings, energy efficiency, and reliability, combine Capio Plus dimmer racks with IGBT Bak Pak® individual dimmers, Optio™ IGBT dimming panels, Intelligent Raceway® distributed IGBT dimming products, or any IPS™ dimming system.





Intelligence

As each dimming circuit features a microprocessor and Application Specific Integrated Circuit (ASIC) to drive the IGBT power device, Capio Plus™ dimmer racks are truly intelligent. This intelligence monitors the incoming voltage to each dimmer module, and compensates for power line fluctuations and interference. Regulated current and voltage provide consistent performance from lamps while minimizing premature lamp failure due to inrush currents. Capio Plus intelligence monitors the load of each dimmer circuit, sensing the size and type of load connected. When the load is inductive, such as a motor or magnetic transformer, Capio Plus dimmers automatically switch to Forward Phase Control (FPC) to prevent damage to the load. Should the load accidentally become shorted, Capio Plus dimmers can sense the short and temporarily disconnect power to that circuit, preventing dangerous arcing and the risk of shock, while protecting the dimmer circuit from damage. Capio Plus dimmers are so smart they can actually tell you when something is wrong. Dual color status LED's on the front panel of each dimmer module notify you when the output is shorted, when the dimmer module is operating warm, or even when the load has changed substantially. Capio Plus intelligence allows you to control the dimmer rack using the Lightolier Controls LYTEmode™ ILS Architectural Lighting Control protocol, USITT DMX512, or optional Pathport® DMX Management via Ethernet.

capio plus at a glance.

- Quiet, proven IGBT technology
- Efficient "chokeless" design, onl
 2.5 volts insertion loss
- 800µS transition time, regardless of load size
- Low Harm™mode reduces power line Harmonics
- IGBT dimmers produce no humming or buzzing, no mechanical resonance
- Advanced thermal management system
- Accepts Lightolier® Controls
 Lytemode® ILS Architectural Lighting
 Control protocol, USITT DMX512
 protocol, and Pathport DMX
 Management via Ethernet
- Multiple Module types compatible with many loads: dual 2400 watt and single 6000 watt dimmer modules, HDF Fluorescent dimming modules, Non-Dim modules, and Constant Circuit modules available
- Rack features ample wiring space, and accommodates wiring from top, bottom, or sides of cabinet
- High velocity fan provides uniform cooling of all dimmer modules
- Designed for both Architectural and Theatrical applications



Dual 2.4 kW 800 µS Capio Plus Dimmer Module (shown IGBT power devices ASIC intelligence and microprocessor per dimmer