

IGBT Architectural Dimmer Panel

Overview

IGBT Architectural Dimmer Panels from Entertainment Technology are high-efficiency enclosures containing up to six 2400W Intelligent Power System™ dimmers. IPS dimmers utilize Entertainment Technology's patented Insulated Gate Bipolar Transistor (IGBT) technology, which provides significant performance advantages over conventional SCR-based dimming equipment. Since this Architectural Dimmer Panel does not use filter chokes or cooling fans, the system is virtually silent, eliminating vibrations, buzzing and other mechanical noises. Overall, IGBT dimmers are more efficient (max 2.5 voltage drop at full), lightweight (less than 2 lbs per dimmer), and produce less heat than conventional dimmers. In addition, each contains an on-board, intelligent micro-processor which 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 micro-processor also automatically suppresses surges, and protects against short circuits. IGBT dimmers significantly reduce neutral harmonics and can be configured to operate in LOW HARM® mode, making them one of the lowest harmonic generating dimmers available.

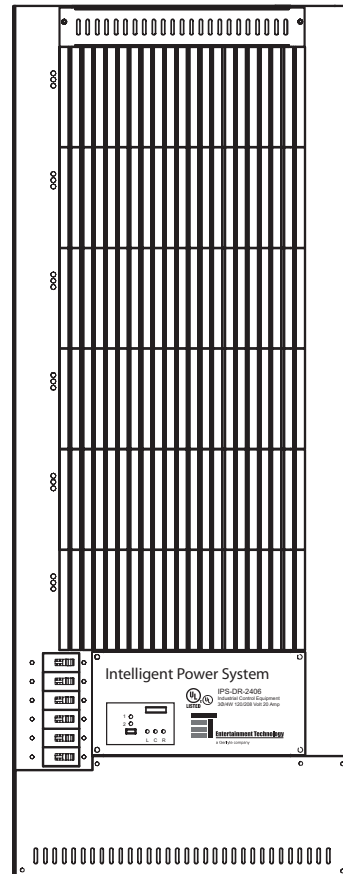
Each of the panel's dimmers incorporate a local Focus button for quick set-up and testing. A bypass relay option is also available.

Features

- IGBT dimming technology - no magnetics, no noise, less wasted energy and heat
- Reverse phase or forward phase control - quiet loads
- Natural convection - quiet operation, no cooling fans or air filters
- Absolute voltage and current regulation - longer lamp life
- LOW HARM® mode - controls harmonic neutral currents
- Focus button on each dimmer - saves set-up time
- Bypass Relay Option
- Compact construction
- Convenient common control card to intergrate architectural loads into flexible IGBT dimmer strip and box system design

Applications

- Commercial
- Architectural loads for Intelligent Power System™ distributed dimming system



Ordering Info

- | | |
|---------------|--|
| IPS-DR-2406 | Architectural Dimmer Panel with Six 2400 Dimmers and 20A Breakers |
| IPS-DR-240(n) | Architectural Dimmer Panel with specified number of dimmers and 20A Breaker(s) |

Options:

- | | |
|-------------------|--|
| IPS-DR-240(n)-BPO | [n] x 2.4 KW, 120 Volt Dimmer with Bypass Relays |
| IPS-DR-240(n)-15 | [n] x 2.4 KW, 120 Volt Dimmer Panel with 15A breakers |
| IPS-DR-240(n)-1P | Single Phase, 3-Wire Option Architectural Dimmer Panel with specified number of dimmers and 20A Breaker(s) |

n = number of dimmers



Entertainment Technology

a Genlyte company

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Specifications

Number of Dimmers:	Up to 6
Max Output Voltage:	115/120 Volts (selectable)
Min/Max Dimmer Load:	<i>20A Breaker Option:</i> 1W/2400W (1920W continuous) <i>15A breaker option:</i> 1W/1800W (1800 continuous)
Transition Time:	450 micro-seconds
Insertion Loss:	2.5 Volts (2%)
Supply Voltage:	<i>3-Phase:</i> 4-Wire & Ground, 120/208V, 40 Amp <i>Single Phase:</i> 3-Wire, 120/240V, 60 Amp
Frequency:	50/60Hz
Load Connection:	Terminal Strip
Line Connection:	Terminal Strip
Control Input:	DMX512 with pass thru
Circuit Protection:	20A fully magnetic breaker or 15A fully magnetic breaker
Ambient Temperature:	0° to 35° C
Relative Humidity:	5% to 95% non-condensing
Cooling Method:	Natural convection
Height:	34.625" (87.95 cm)
Depth:	6.5" (16.51 cm)
Width:	13.375" (33.97 cm)
Weight (Full):	37.5 lbs (17 kg)
Weight (Empty):	19.5 lbs (8.8 kg)

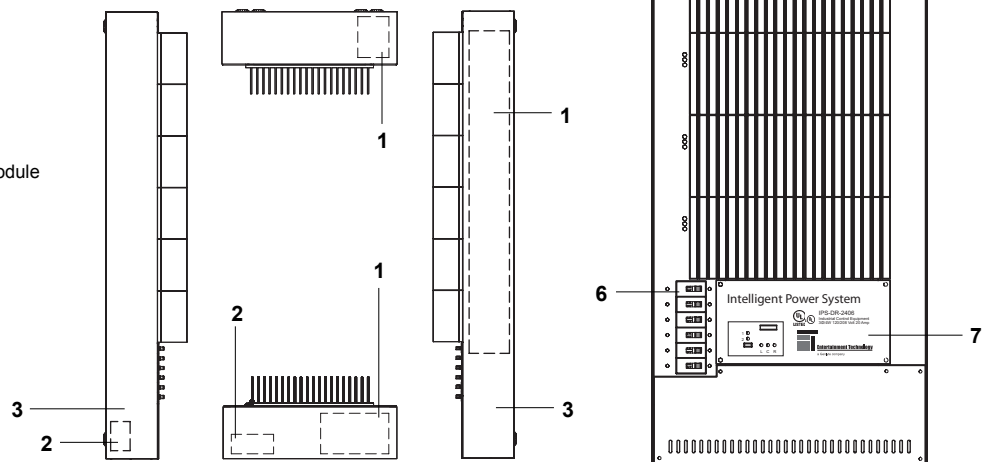
IPS dimmers shall control the following load types: incandescent, neon, cold cathode, electronic low-voltage, magnetic low-voltage, and quartz halogen. IPS dimmers shall be compatible with most major brands of fluorescent non-dim ballasts when set to a non-dim configuration or when using the non-dim modules. IPS dimmers shall also be compatible with 2-wire electronic dimming ballasts such as the Advance Mark 10®. When necessary, IPS dimmers shall automatically adjust to Forward/Reverse Phase Control to protect the connected loads.

IPS dimmers shall be configurable to operate in Low Harm™ mode, to reduce the effect of neutral harmonics without the use of additional filters by pairing dimming modules within a phase to complimentary forward/reverse phase control.

IPS dimmers shall provide a focus button for each channel, to provide On/Off/Level control for focusing and testing of the connected loads. IPS dimmers shall also be able to provide control of forward and reverse phase waveform dimming. *

* When used with Guardian software on a LYTEmode® ILS network

- 1 Power In (Line/Load)
- 2 Control In (DMX512)
- 3 Wire Terminal Location
- 4 2400W IGBT Dimmer Module
- 5 Focus Button
- 6 Circuit Breakers
- 7 Control Display Card



This product may be covered by one or more of the following U.S. Patents: #4,413,211; 4,430,576; 4,465,956; 4,733,138; 4,792,731; 4,880,950; 4,988,840; 4,992,709; 5,004,969; 5,004,969; 5,128,654; 5,153,816; 5,189,259; 5,194,858; 5,239,255; 5,239,255; 5,371,439; 5,371,444; 5,506,480; 5,636,111; 5,642,104; 5,646,490; 5,814,550; 5,821,704; 5,920,156; 5,930,126; Des. #307,578; 333,124; 435,203; 440,207; License #4482844; 5,004,969; 5,239,255; and corresponding foreign patents. Other Utility, Design and Foreign Patents Pending. We reserve the right to change details of design, materials and finish in any way that will not alter the installed appearance or reduce function performance. Specifications are subject to change without notice.