

IGBT Dimmer Strip



IPS-DS-1206-PC



IPS-DS-2403-PC



Overview

Dimmer Strips from Entertainment Technology are lightweight, compact enclosures containing six 1200W or three 2400W Intelligent Power System™ dimmers. IPS dimmers utilize Entertainment Technology's patented Insulated Gate Bipolar Transistor (IGBT) technology, which 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 (max 2.5 voltage drop at full), lightweight, and produce less heat than conventional dimmers. In addition, each unit is cUL-Listed and 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.

Applications

- Educational Theatre
- Auditorium / Cafeteria
- Black Box Theatre
- Rehearsal Spaces
- Regional Theatre
- Houses of Worship
- TV Studios
- Hotels / Casinos

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
- Lightweight and compact enclosure with multiple mounting options

Ordering Info

IPS-DS-1206-{ }	6 x 1.2 KW, 120 Volt Dimmer Strip (PC = Pin Connector, TL = Grounded Twistlock, SB = Straight Blade) *
IPS-DS-2403-{ }	3 x 2.4 KW, 120 Volt Dimmer Strip (PC = Pin Connector, TL = Grounded Twistlock, SB = Straight Blade) *
IPS-MB-101	Single Pipe Hanger **
IPS-MB-102	Double Pipe Hanger **
IPS-MB-103	Wall Mount Hanger (two required) **
IPS-MB-105	"C" Style Mounting Clamp (two required) **
IPS-MB-106	Ceiling Mount Hanger (two required) **
IPS-MB-107	Scaffold Mounting Clamp (two required) **
IPS-CO-{ }	Cord Kit with NEMA L21-20P connector (length in inches)
IPS-DX-{ }	DMX512 control cable with connectors (length in feet)

* Refer to illustrations on back page

** See Intelligent Power System IGBT Dimmer Strip and Dimmer Box Mounting Hardware Spec Sheet 87-0446



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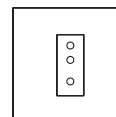
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IGBT Dimmer Strip

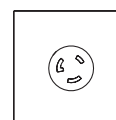
Specifications

	IPS-DS-1206	IPS-DS-2403
Number of Dimmers:	6	3
Maximum Output Voltage (selectable):	115/120 Volts	115/120 Volts
Min/Max Dimmer Load:	min 1W/max 1200W	min 1W/max 2400W
Transition (Full) Time:	450 micro-seconds	800 micro-seconds
Insertion Loss:	2.5 Volts [2%]	2.5 Volts [2%]
Supply Voltage:	3-Phase, 4-Wire: 120/208V, 20 Amp	3-Phase, 4-Wire: 120/208V, 20 Amp
Frequency:	50/60 Hz	50/60 Hz
Load Connection:	Grounded Pin, Grounded Twistlock, Grounded Straight Blade	Grounded Pin, Grounded Twistlock, Grounded Straight Blade
Line Connection:	Terminal Strip or Optional Cord Kit with NEMA L21-20P	Terminal Strip or Optional Cord Kit with NEMA L21-20P
Control Input:	DMX512 with pass thru	DMX512 with pass thru
Ambient Temperature:	0° to 40° C	0° to 40° C
Relative Humidity:	5% to 95% non-condensing	5% to 95% non-condensing
Cooling Method:	Natural Convection	Natural Convection
Height:	5" (13 cm)	5" (13 cm)
Depth:	3.5" (9 cm)	4.25" (10.8 cm)
Length:	87" (220 cm)	56.5" (144 cm)
Weight:	32 lbs (14.5 kg)	23 lbs (10.5 kg)
Compliance:	UL Listed to U.S. and Canadian safety standards	

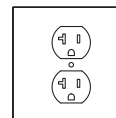
Connector Types



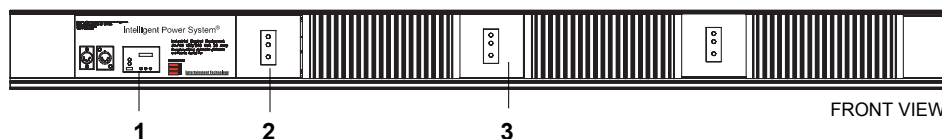
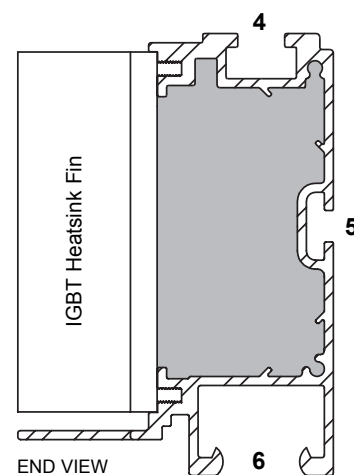
(PC) Grounded Stage Pin



(TL) Grounded Twistlock
NEMA L5-20R



(SB) Straight Blade
NEMA 5-20R (T-Slot)



- 1 Control Electronics (Head End Processor)
- 2 Load Connector (see Connector Types illustration)
- 3 Focus Button and Status LEDs
- 4 1/2" Hex Head Bolt Capture Track may be used to attach standard "C" clamps to the Dimmer Strip when mounting the Dimmer Strip below a pipe.
- 5 5/16" Carriage Bolt Capture Track may be used for a variety of attachment applications: The Dimmer Strip may be mounted to a vertical member bracket in a multi-pipe batten assembly, or permanently mounted to the wall or ceiling using the appropriate mounting brackets.
- 6 Unistrut® compatible track may be used for a variety of attachment applications: Fixtures may be Unistrut-bolted directly to the Dimmer Strip, or mounting clamps may be Unistrut-bolted for above-pipe mounting.

See Data Sheet 87-0446 for Dimmer Strip mounting hardware options .

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.



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For technical/sales assistance, call: **1-800-223-9477**

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