



Performance Controls

Big Stik

Features

- No derating-100% full duty cycle for all models: 10 and 20 Amp units
- Overheat and over current protected
- Convection cooled with thermal sensor
- Dims standard or low-voltage incandescent, quartz sources within the same enclosure
- 3-phase power input
- Class II low-voltage control circuitry in DMX 512 format
- 3-digit dimmer addressing
- LED indicators
- Assignable worklight control
- Test / focus dimmer switches with LED indication
- UL listed



Description

Save Space and Money

The *Big Stik*™ shall be a portable, high performance, dimmer system. You can plug this flexible dimmer system into a 3-phase 20 Amp twist-lock connection. This streamline dimmer shall weigh less than 50 pounds and can mount vertically or horizontally in any location. All that the *Big Stik*™ will need is a 3-phase connection, a DMX source, and lighting instruments and it is ready to go.

Connect The Signal

The *Big Stik*™ shall accept the industry standard 5-pin XLR style DMX connector

for the optically isolated signal input.

When connected with a signal present, the LED will illuminate. The *Big Stik*™ is shall be furnished with a DMX output connector that allows the control signal to "daisy-chain" through any additional *Stiks*™ or other remote devices.

Power the Loads

Connect any incandescent or quartz load into each of the outlets. Overload conditions will be protected at the outlets to avoid common failures. The *Big Stik*™ shall even have the capability to control low-voltage lighting fixtures.

Create the Look

With the DMX controller on line, the *Big Stik*™ will be ready to respond to the commands of the signal generator. The lamp output is smooth and even, without flickering or stepping.

It's Flexible

The *Big Stik*™ shall offer the best value in the market by making the unit user-friendly. The lightweight design and unique mounting hardware shall allow the *Big Stik*™ to fit into any environment.

Order Information:

- Black*
- White
- Custom Color

Configurations:

- 3 - 2.4 kW*
- 6 - 1.2 kW

Output Connectors:

- Nema 5-20R (Parallel Blade)
- Nema L5-20R (20ATwist-lock)
- Grounded Stage Pin

Mounting:

- Ceiling/Wall
- Single Pipe
- Pipe Clamp
- Custom

Input Connectors:

- 20A 120/208V 3- phase Twist-lock
- Lug Ends

* Standard
Automatic 50/60Hz Detection

Job Number:

Customer:

Approval Stamp:

Job Name:

P.O.:

Electronics Diversified, Inc.

PRODUCT DATA SHEET

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Portable Dimmer

Big Stik

Electrical Characteristics:

Power: 120/208 VAC, 3-phase

Automatic 50/60Hz Detection Operating

Environment: Temperature range: 32° F. (0° C) to 104° F. (40° C).

Humidity range: 0% - 90% non-condensing

Dimmer Capacity: 3 x 2.4 Watts or 6 x 1.2 Watts

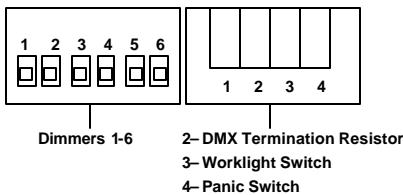
Load Types: Incandescent, Quartz Lamps, and electronic low-voltage fixtures. *Consult factory for additional compatibility information.

Rise Time: 325µs 10-90%

Switch Type: SCR Solid State Relay

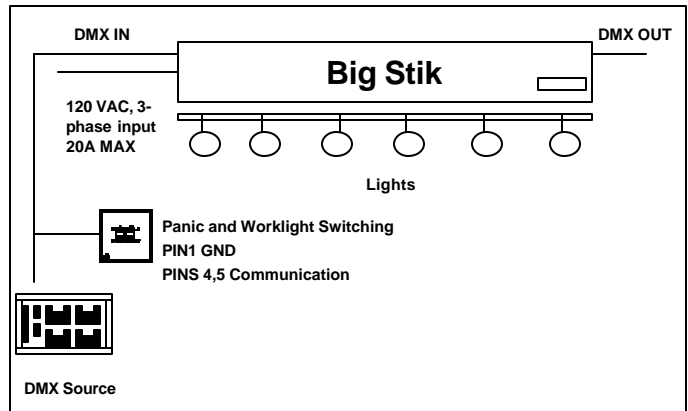
*Designed for dimmable electronic low-voltage fixtures. Consult factory for additional compatibility information.

Worklight Assignment/Panic



System Riser/Contractor Points

Mechanical Characteristics:



Physical: : 4.8" x 3.5" x 78"

(12.192cm x 8.89cm x 198.12cm)

Material: Panel Grade 16ga. Steel (.059") Aluminum

Weight: 41 lbs. (3-2.4kW version)

46 lbs. (6-1.2kW version)

Finish: Paint, black polyurethane enamel (standard)

White or Custom Color (optional)

Specifications

1. The enclosure shall accommodate 3 (2.4 kW) or 6 (1.2 kW) dimmers.
2. The Big Stik™ shall be designed to dim standard quartz or incandescent and electronic low-voltage sources.
3. The Big Stik™ dimmer shall be convection cooled. Each dimmer module will include a thermal sensor that will shut down the dimmer if the heatsink temperature exceeds 185° F (85° C).
4. The dimmers shall use an encapsulated pair of silicon controlled rectifiers to provide symmetrical alternating current output to the load at any output level from OFF to FULL intensity. The entire load of the dimmer will be carried solely by the silicon-controlled rectifiers. The silicon-controlled rectifier is inherently designed in such a manner that it is impossible for any spurious voltage to be transferred to the control wires and damage low voltage electronics. Dimmer heatsinks without an individual thermal sensor are not acceptable.
5. Each module shall have a toroidal, copper-wound, iron-core high performance choke. Performance rise time shall be no less than 325 µs. All measurements shall be from 10% to 90% at full load.
6. The maximum heat loss for each 2.4kW dimmer shall be no greater than 48 watts per dimmer or 100 BTU's (British Thermal Units) per hour per connected KW of load.
7. The dimmers shall operate over an input voltage range of 90 to 140 VAC per phase. The dimming system will operate with a three phase input.
8. Incandescent dimmers shall function properly with any load from 25 watts to rated capacity.
9. The dimmer will be controlled by a standard USITT DMX-512 control signal.
10. The assignable work light function shall have wired remote dimmer testing.
11. All dimming functions shall be microprocessor controlled with no internal trim potentiometers or other adjustments.
12. The Big Stik™ shall have test/focus maintain switches for each dimmer. When depressed, the LED indicator will light and the dimmer circuit will go to full power.
13. All control electronics shall be incorporated on a single double-sided FR4-G10, U.L. Listed, printed circuit board.
14. The entire assembly is U.L. Listed.