

Big Stik Portable Dimmer

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 μ S. 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.