L86 DIMMER RACK

Ultra Density
384 - 10A
192 - 20A
96 - 50A
48 - 100A

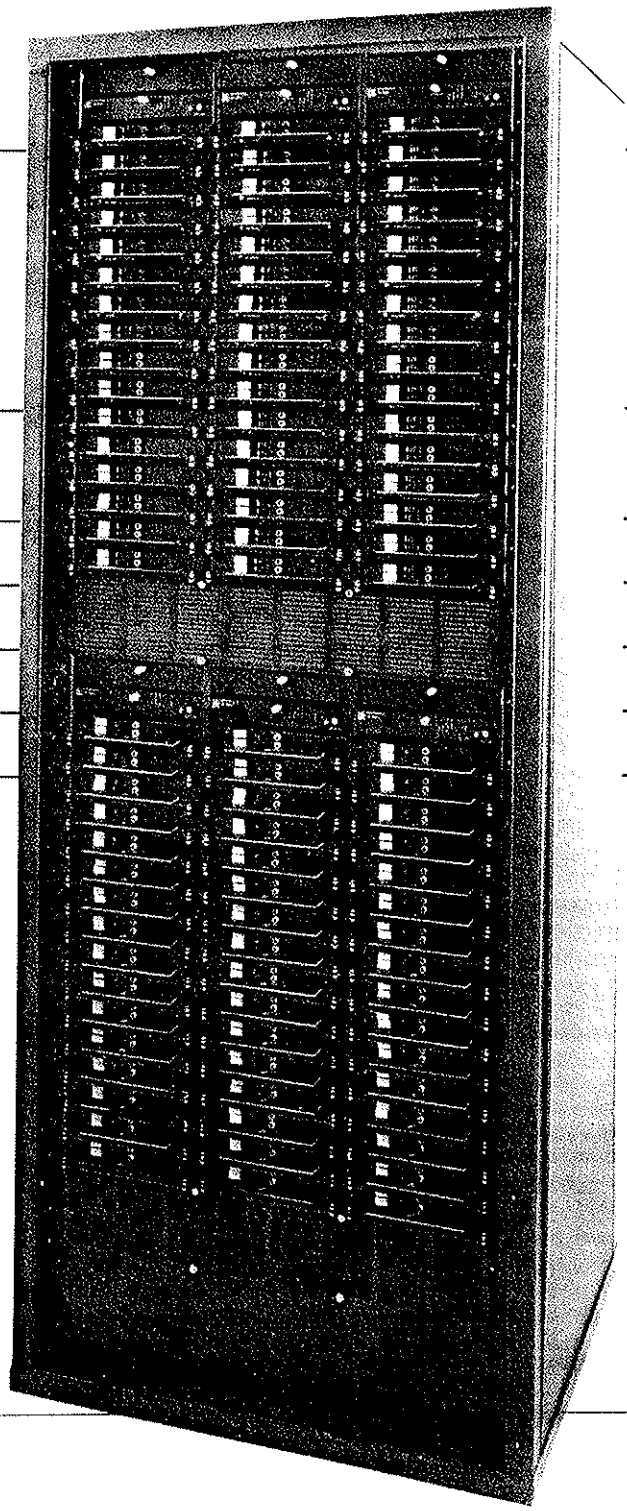
Fully Digital
DMX-512 Control

Plug In Dimmers

Plug In Electronics

Front or Rear Access

UL Listed File E[illegible]



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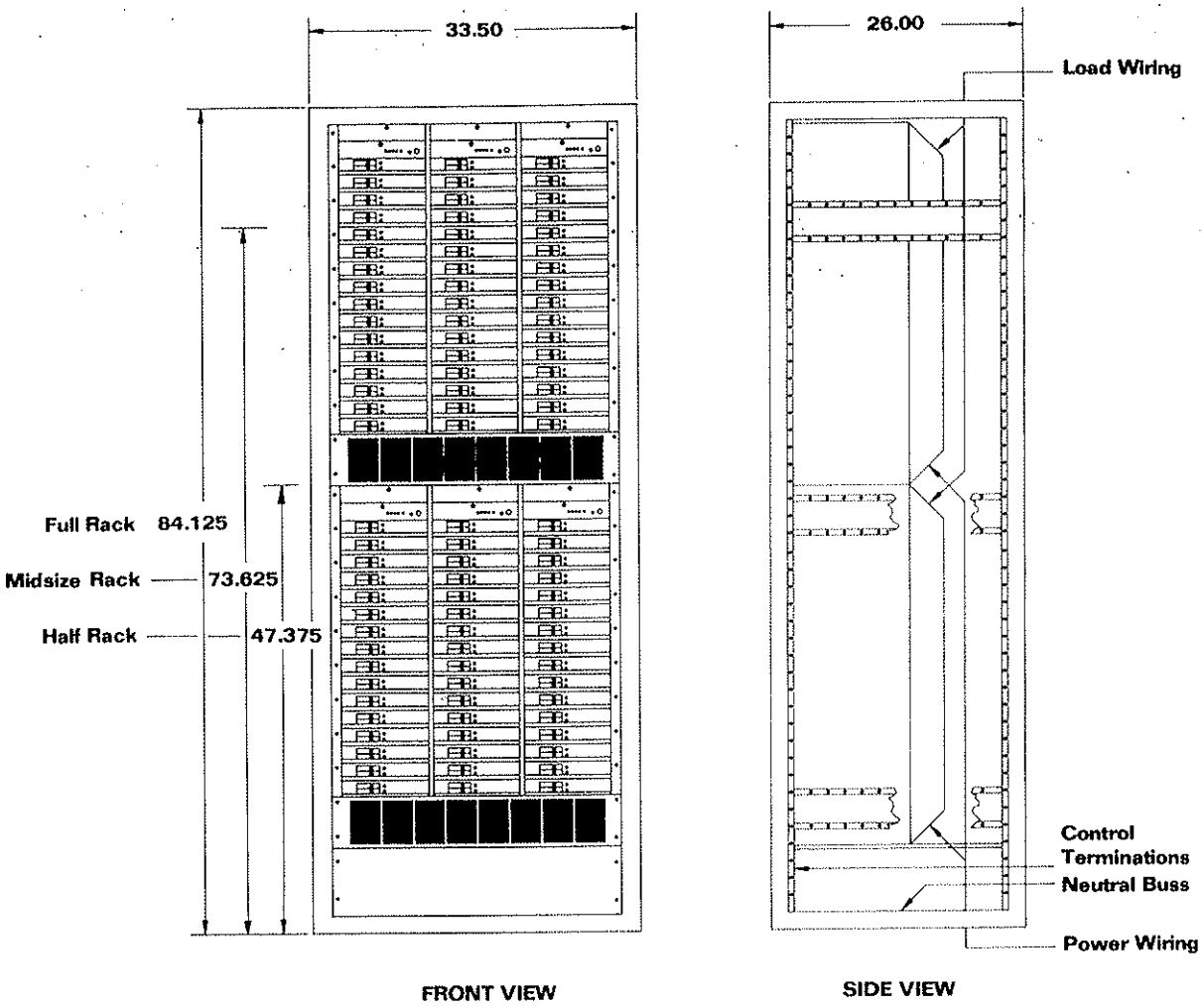

Specifications:

General: The Lighting Methods, Inc. Model L86 dimmer rack is designed to house up to 2 L86 chassis containing up to 96 dimmer module spaces. L86 rack systems shall be Underwriters Laboratories listed and bear the UL label when delivered to the job.

Physical: The dimmer rack shall be floor supported, deadfront, substantially framed and enclosed with 18 Ga formed steel panels It shall be designed for front or rear access for ease of installation. Rack frame shall be a solid weldment of 14 Ga formed structural members, panel mounting struts and panel mounting angles. All rack components shall be properly treated, primed and finished with black texture baked enamel. Exterior removable panels shall be arranged for conduit terminations at the top and bottom of the rack.

Three frame sizes shall be available; a half rack at 47.375", a midsize at 73.625" and a full size at 84.125" high. All racks are 33.5" wide x 26" deep. Rack frames shall be shipped separately and bolted together on site for multiple bay systems.

Electrical: L86 dimmer chassis are designed to hold 48 (model L86/C48) or 24 (model L86/C24) dimmer modules, one receiver module, and three L86/EM64 electronics modules. They are designed to operate on 3 phase 4 wire + G service at 800 or 400 amps 120/208 volts 60hz. AC. Each chassis shall require a separate service unless central power distribution rack is specified.

Dimmer chassis contain appropriately sized lugs for power and load connections and control input. Power distribution shall be by vertical copper buss bars to allow phase balancing. No more than two consecutively numbered dimmers (four for quad 10A modules) shall be on the same phase.

Ventilation: Three low noise squirrel cage type fans shall be located at the bottom of each chassis to pressurize the chassis plenum and flow air over the upper and lower surfaces of the module bottom. In no case shall more than one module be in the airflow stream. Dimmer racks that rely on moving a column of air over a stack of several modules or do not filter the air are not equal and are not acceptable.

Fans shall turn on when control is energized. To assist in maintaining an acceptable temperature inside the dimmer rack the owner shall insure that the ambient temperature of the dimmer room shall not exceed 40° C. In the event of an overtemperature situation the effected individual dimmer module shall shut itself down until an acceptable temperature is reached and signal such condition to the control console. Dimmer systems which shut down the entire rack in overtemperature situations are not equal and are not acceptable. The fans shall remain on during any thermal shutdown.

Electronics: Dimmer control electronics are contained in three L86/EM64 plug in modules. Space shall be supplied for an optional fourth spare module. Standard control format is DMX-512. In the standard configuration one L86/EMRF feed through receiver is supplied. Additional receivers are available for custom applications or where interface to other control formats or multiple controls is required. When other optional receivers are supplied a feedthrough receiver shall be supplied for backup. See electronics data sheet for specifications on individual electronics modules.