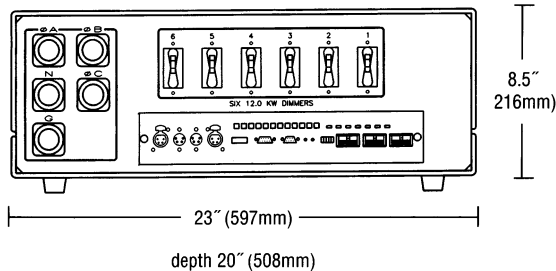# CD80 DIMMER PACKS
Portable and permanent applications

❑ Rugged dimmer packs for portable and permanent applications

❑ Full range of capacities: 24 - 1.2kW, 12 - 2.4kW, 24 - 2.4kW 6 - 6kW or 6 - 12kW

❑ Full range of output connectors: pin connectors, twist locks and parallel blades or terminal strip output for permanent installations

❑ Plug-in digital command module

❑ Automatic multiple protocols - automatically selects for DMX 512 and AMX 192 with active protocol LED display

❑ Overlapping simultaneous 0 to +10V analog control output

❑ Illuminated push buttons for local control (full/normal) plus 'panic' feature for instant on

❑ Input and output XLR connectors for daisy chaining packs

❑ Entire pack UL and CSA approved as an assembly and appropriately labelled

❑ Simple phase change from single phase 3 wire to three phase 4 wire

❑ Toroidal chokes for high-quality filtering

❑ Full range of output connectors: stage pin, twistlocks, parallel blade and multi-pin socapex or terminal strip output for permanent installations

8.5″ (216mm)

23″ (597mm)

depth 20″ (508mm)

Materials	0.1254" (3mm) thick aluminum
Construction	Removable cover for access to all components. Recessed carrying handles
Finish	Gray powder coat epoxy paint
Operating Temp.	0°C to + 35°C
Storage Temp.	5°C to + 55°C
Humidity	10% to 95% non-condensing

	2.4/6.0kW	12.0kW	packed volume
weight	65lb (29kg)	85lb (38.2kg)	5.7 cu. ft.

Electrical Data

Supply Voltage/Frequency
1.2kW, 2.4kW, 6kW

Three phase:120/208V 50/60Hz.

Single phase: 120/240V 50/60Hz.

12kW

Three phase: 120/208V 50/60Hz.

Distribution
Three phase: 4-wire + ground

Single phase: 3-wire + ground

Pack Isolation
2500V between low and high voltage sections of SSRs

Total Capacity
1.2kW Max current (12/24 Dimmers)

3/0 4W 80A, 1/0 3W 120A

6.0kW Max. current

3/0 4W 100A, 1/0 3W 150A

12.0kW Max. current

3/0 4W 200A

Load Connections
Dimmer outputs are provided on the rear of the pack as follows:

2.4KW: grounded pin or grounded twistlock(20A) with multi-pin Socapex connectors

6kW: grounded pin or grounded twistlock (all 60A) or terminal strip

12kW: grounded pin (100A), or terminal strip

Supply Connections
12kW: Terminal strips or Cam-lok

Circuit Protection

Each dimmer module is protected by a fully magnetic circuit breaker of 10kA fault current rating

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Control Input

Packs will support DMX512, AMX192, and analog: +10V input per dimmer with ability to pile analog inputs on to Mux levels. The rack will automatically sense input protocol connected

DMX: 5-pin XLR This input is optoisolated from dimmer electronics

AMX: 4-pin XLR

LED Indicators

Protocol in use, over temperature and phase

Control Cable Entry

Per AMX and DMX specifications

Control Output

5-pin XLR DMX

4-pin XLR AMX

Local Control

Illuminated push buttons(full/normal) plus "panic" feature for instant on

Max Heat Dissipation

Approx 3-5% of connected load (Convert watts to BTU's)

Cooling Method

100CFM low noise fan

Dimmer Data

No of Dimmers: 12 or 24 x 2.4kW ,6 x 6.0kW
6 x 12kW

Dimmer Firing: Digital

Max/min Dimmer Loads: Min 12W Max 2.4, 6.0, and 12.0kW

Rise Time/Filtering: 350 microseconds

Over Temperature Protection: If SSR heatsink overheats, the O.T. indicator will turn on and the pack will shut down

Patching: 3 Thumb wheel switches for AMX/DMX addressing

Ordering Information

CD80 Digital Pack 2.4kW

Digital dimmer pack with twelve or twenty four 2.4kW dimmers. Includes low-noise cooling fan and primary circuit breakers.

Cat. No.	Description
73205	CD80 2.4kW pack, 12 dimmers, primary circuit breakers, GP and Socapex sockets
73206	CD80 2.4kW pack, 12 dimmers, primary circuit breakers, GTL and Socapex sockets
73210	CD80 2.4kW pack, 12 dimmers, primary circuit breakers, two 20A GTL connectors per dimmer
73211	CD80 2.4kW pack, 12 dimmers, primary circuit breakers, two 20A GP connectors per dimmer
73214	CD80 2.4kW pack, 12 dimmers, primary circuit breakers, terminal strip output
73240	CD80 2.4kW pack, 24 dimmers, primary circuit breakers, one 20A GTL connector per dimmer
73241	CD80 2.4kW pack, 24 dimmers, primary circuit breakers, one 20A GP connector per dimmer
73244	CD80 2.4kW pack, 24 dimmers, primary circuit breakers, terminal strip output
73247	CD80 2.4kW pack, 24 dimmers, primary circuit breakers, Solaplex outputs, Camlock inputs

CD80 Digital Pack 6kW

Digital dimmer pack with six 6kW dimmers. Includes low-noise cooling fan and primary circuit breakers.

Cat. No.	Description
73224	CD80 6 kW pack, 6 dimmers, primary circuit breakers, Camlock inputs, terminal strip output
73227	CD80 6 kW pack, 6 dimmers, primary circuit breakers, Camlock inputs, one 60A GP connector per dimmer

CD80 Digital Pack 12kW

Digital dimmer pack with six 12kW dimmers. Includes low-noise cooling fan and primary circuit breakers. Choice of portable pack with one 100A GP connector per dimmer and Camlock input connectors or wall mounted pack with terminal strip for permanent wiring

Cat. No.	Description
73230	CD80 12kW pack, 6 dimmers, primary circuit breakers, terminal strip output
73234	CD80 12kW pack, 6 dimmers, primary circuit breakers, one 100A GP connector per dimmer

* Joy connectors in Canada.

CD80 Digital Packs Accessories

Cat. No.	Description
76470	Digital Pack Controller for 24 x 1.2kW or 2.4kW CD80 dimmer packs
76471	Digital Pack Controller, to retro-fit AMX192 2.4kW, 6kW, and 12kW CD80 dimmer packs or as a spare

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