

# C&D TECHNOLOGIES

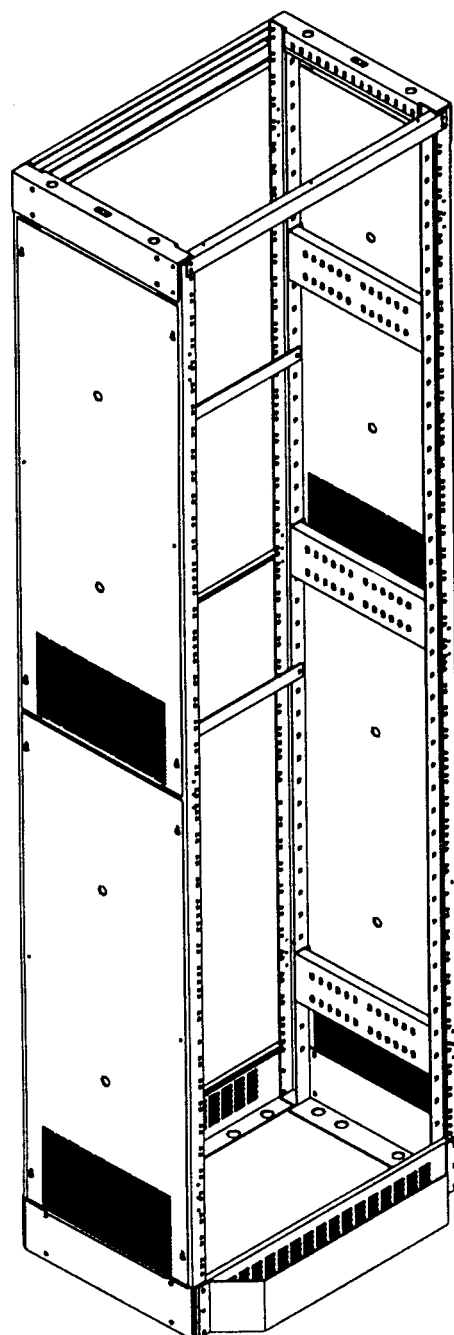
Power Solutions

## BOX FRAME ENCLOSURES AND RELAY RACKS

**C&D TECHNOLOGIES' FRAME ENCLOSURES** provide attractive, space-saving displays for power equipment. Removable side and rear panels protect personnel from electrical hazards. Nineteen and twenty-three inch enclosure widths are available in box frames ranging from four to seven feet in height. A box enclosure equipped with a wiring channel on the right side is also available.

**C&D TECHNOLOGIES' RELAY RACKS**, self-supporting, channel-type aluminum racks offer an economic alternative to enclosures. Nineteen and twenty-three inch rack widths are available in relay racks ranging from 4' to 11' 6" in height. Clear polycarbonate side and rear covers are available. Covers attach to the metal frames via keyhole slots. Clear cover assemblies have an oxygen index of 28 percent or greater and are flammability rated UL94V-0.

Enclosures and racks have 12-24 holes drilled and tapped in accordance with Electronics Industries Association standards for 1.75" spacing. Relay racks up to seven feet tall are certified for use in seismic zones zero through four, with the proper mounting hardware kit, per California Administrative Code Title 24. Our Applications Engineers are always available to help you design safe, efficient enclosure arrangements.



Box Frame Enclosure 200-3402-00

## ORDERING INFORMATION

Select box enclosures and relay racks from the following tables. Order blank panels, perforated ventilation panels, heat shields and seismic mounting hardware kits as

necessary. Seismic mounting hardware kits are required for seismic zone four installations compliant with Bellcore Technical Reference TR-NWT-000063 Issue 4.

## BOX ENCLOSURES

Panel Width inches (cm)	Height feet (cm)	Depth inches (cm)	Number of Usable Rack Spaces	Weight lbs (kg)	Part Number
19" (48cm)*	4' (122cm)	18" (46cm)	24	64 lbs (29.0kg)	200-3217-14
	4' (122cm)	24" (61cm)	24	71 lbs (32.2kg)	200-3217-24
	5' (152cm)	18" (46cm)	31	82 lbs (37.2kg)	200-3217-15
	5' (152cm)	24" (61cm)	31	91 lbs (41.2kg)	200-3217-25
	6' (183cm)	18" (46cm)	38	96 lbs (43.5kg)	200-3218-16
	6' (183cm)	24" (61cm)	38	107 lbs (48.5kg)	200-3218-26
	7' (213cm)	18" (46cm)	45	108 lbs (48.9kg)	200-3218-17
	7' (213cm)	24" (61cm)	45	124 lbs (56.2kg)	200-3218-27
23" (58cm)**	4' (122cm)	18" (46cm)	24	70 lbs (31.7kg)	200-3219-14
	4' (122cm)	24" (61cm)	24	83 lbs (37.6kg)	200-3219-24
	5' (152cm)	18" (46cm)	31	89 lbs (40.32kg)	200-3219-15
	5' (152cm)	24" (61cm)	31	104 lbs (47.1kg)	200-3219-25
	6' (183cm)	18" (46cm)	38	105 lbs (47.6kg)	200-3220-16
	6' (183cm)	24" (61cm)	38	117 lbs (53.0kg)	200-3220-26
	7' (213cm)	18" (46cm)	45	118 lbs (53.5kg)	200-3220-17
	7' (213cm)	24" (61cm)	45	131 lbs (59.3kg)	200-3220-27
	7' (213cm)	24" (61cm)	45	153 lbs (69.3kg)	200-3221-27***
	7' (213cm)	15" (38cm)	45	150 lbs (68.0kg)	200-3402-00***

\*Enclosure width is 20.38" (52 cm)

\*\*Enclosure width is 24.38" (62 cm)

\*\*\*Enclosure is 31.38" (80 cm) wide to accommodate a wiring channel on the right side of the rack.

## PERFORATED VENTILATION PANELS

Order one mounting kit for each panel.

Panel Width inches (cm)	Height inches (cm)	Depth inches (cm)	Rack Spaces	Weight lbs (kg)	Part Number	
					Panel	Mounting Kit
19" (48cm)	1.75" (5cm)	0.5" (1.3cm)	1	1 lb (0.5kg)	202-5182-00	385-2932-04
	7.00" (18cm)		4	3 lbs (1.4kg)	202-5181-00	385-2932-04
	14.00" (36cm)		8	7 lbs (3.2kg)	202-5182-07	385-2932-08
23" (58cm)	1.75" (5cm)	0.5" (1.3cm)	1	1 lb (0.5kg)	202-2183-00	385-2932-04
	3.50" (9cm)		2	2 lbs (0.9kg)	202-5183-01	385-2932-04
	5.25" (13cm)		3	3 lbs (1.4kg)	202-5183-02	385-2932-04
	7.00" (18cm)		4	5 lbs (2.3kg)	202-5180-00	385-2932-04
	12.25" (31cm)		7	7 lbs (3.2kg)	202-5183-06	385-2932-08
	14.00" (36cm)		8	8 lbs (3.6kg)	202-5183-07	385-2932-08
	17.50" (45cm)		10	9 lbs (4.1kg)	202-5183-08	385-2932-08

## ALUMINUM RELAY RACKS

Panel Width inches (cm)	Height feet (cm)	Depth inches (cm)	Number of Usable Rack Spaces	Weight pounds (kg)		Part Number		
				With Covers	Without Covers	Rack With Plastic Covers	Rack Without Covers*	Polycarbonate Rear Cover Ass'y
19" (48cm)	4' (122cm)	15" (38cm)	23	44 lbs (19.9kg)	24 lbs (10.9kg)	—	170-0004-10	—
	5' (152cm)		30	50 lbs (22.7kg)	26 lbs (11.8kg)	—	170-0005-10	—
	6' (183cm)		37	54 lbs (24.5kg)	31 lbs (14.0kg)	—	170-0006-10	—
	7' (213cm)		43	61 lbs (27.6kg)	33 lbs (14.0kg)	200-3212-23	170-0010-10	385-2812-20
	7'6" (229cm)		47	63 lbs (27.6kg)	34 lbs (15.4kg)	200-3212-24	170-0011-10	385-2821-20
	8' (244cm)		50	66 lbs (29.9kg)	35 lbs (15.9kg)	200-3212-25	170-0012-10	385-2820-20
	8'6" (259cm)		54	71 lbs (32.2kg)	36 lbs (16.3kg)	—	170-0013-10	—
	9' (274cm)		57	74 lbs (33.5kg)	37 lbs (16.8kg)	—	170-0015-10	—
23" (58cm)	4' (122cm)	15" (38cm)	23	46 lbs (20.8kg)	25 lbs (11.3kg)	—	170-0029-10	—
	5' (152cm)		30	51 lbs (23.1kg)	27 lbs (12.2kg)	—	170-0024-10	—
	6' (183cm)		37	53 lbs (24.0kg)	32 lbs (14.5kg)	—	170-0025-10	—
	7' (213cm)		43	58 lbs (26.3kg)	37 lbs (16.8kg)	200-3213-23	170-0023-10	385-2813-20
	7'6" (229cm)		47	60 lbs (27.2kg)	38 lbs (17.2kg)	200-3213-24	170-0022-10	385-2815-20
	8' (244cm)		50	64 lbs (29.0kg)	39 lbs (17.7kg)	200-3213-25	170-0020-10	385-2822-20
	8'6" (259cm)		54	66 lbs (29.9kg)	40 lbs (18.1kg)	—	170-0027-10	—
	9' (274cm)		57	70 lbs (31.7kg)	41 lbs (18.6kg)	—	170-0032-10	—

\*These racks are drilled for front and rear flange mounting. For racks drilled for front flange mounting only, replace the -10 extent at the end of the part number with a -01 extent. The polycarbonate rear cover assembly is mountable on both types of racks.

## HEAT SHIELDS

Heat shields offer protection from heat-generating equipment. They are recommended when multiple heat-generating devices (such as rectifiers or CEMF cells) are installed in a relay rack or box enclosure. Typically, midmount heat shields are used between heat-generating devices and heat-sensitive midmount

equipment, or between midmount rectifiers. Typically, flush-mount heat shields are used between heat-generating devices and heat-sensitive flushmount equipment, or between flush-mount rectifiers. Order one mounting kit for each heat shield.

Application	Mounting inches (cm)	Height inches (cm)	Depth inches (cm)	Offset inches (cm)	Rack Spaces	Weight lbs (kg)	Part Number	
							Heat Shield	Mounting kit
19" (48cm) (W)	midmount*	3.5" (9cm)	14" (36cm)	5" (13cm)	2	8 lbs (3.6kg)	201-3492-00	385-2933-04
	flushmount	3.5" (9cm)	14" (36cm)	none	2	6 lbs (2.7kg)	385-2900-00	385-2932-04
23" (58cm) (W)	midmount*	3.5" (9cm)	14" (36cm)	5" (13cm)	2	9 lbs (4.1kg)	201-3216-00	385-2933-04
	midmount*	3.5" (9cm)	16" (41cm)	8" (20cm)	2	9 lbs (4.1kg)	201-3216-10	385-2933-04
	midmount*	5.25" (13cm)	20" (51cm)	8" (20cm)	3	12 lbs (5.4kg)	201-3174-02	385-2933-04
	midmount*	5.25" (13cm)	16" (41cm)	8" (20cm)	3	10 lbs (4.5kg)	201-3174-01	385-2933-04
	flushmount	1.75" (5cm)	7" (18cm)	none	1	4 lbs (5.4kg)	202-5222-00	385-2932-04
	flushmount	3.5" (9cm)	16" (41cm)	none	2	10 lbs (4.5kg)	385-2910-00	385-2932-04
	flushmount	5.25" (13cm)	12" (31cm)	none	3	9 lbs (4.1kg)	202-5223-00	385-2932-04

\*For relay rack applications only.

## BLANK PANELS

Order one mounting kit for each panel.

Panel Width inches (cm)	Height inches (cm)	Depth inches (cm)	Rack Spaces	Weight lbs (kg)	Part Number	
					Panel	Mounting Kit
19" (48cm)	1.75" (5cm)	0.5" (1.3cm)	1	2 lbs (0.9kg)	202-3244-00	385-2932-04
	3.5" (9cm)		2	2 lbs (0.9kg)	202-3244-01*	385-2932-04
	5.25" (13cm)		3	3 lbs (1.4kg)	202-3244-02	385-2932-04
	7.0" (18cm)		4	4 lbs (1.8kg)	202-3244-03	385-2932-04
	8.75" (22cm)		5	4 lbs (1.8kg)	202-3244-04	385-2932-04
	10.5" (27cm)		6	5 lbs (2.3kg)	202-3244-05	385-2932-08
	12.25" (31cm)		7	6 lbs (2.7kg)	202-3244-06	385-2932-08
	14.0" (36cm)		8	7 lbs (3.2kg)	202-3244-07	385-2932-08
	15.75" (40cm)		9	8 lbs (3.6kg)	202-3244-08	385-2932-08
23" (58cm)	1.75" (5cm)	0.5" (1.3cm)	1	2 lbs (0.9kg)	202-3245-00	385-2932-04
	3.5" (9cm)		2	3 lbs (1.4kg)	202-3245-01*	385-2932-04
	5.25" (13cm)		3	4 lbs (1.8kg)	202-3245-02	385-2932-04
	7.0" (18cm)		4	5 lbs (2.3kg)	202-3245-03	385-2932-04
	8.75" (22cm)		5	6 lbs (2.7kg)	202-3245-04	385-2932-04
	10.5" (27cm)		6	7 lbs (3.2kg)	202-3245-05	385-2932-08
	12.25" (31cm)		7	8 lbs (3.6kg)	202-3245-06	385-2932-08
	14.0" (36cm)		8	9 lbs (4.1kg)	202-3245-07	385-2932-08
	15.75" (40cm)		9	10 lbs (4.5kg)	202-3245-08	385-2932-08

\*To order the 3.50" panel with the Ratelco logo on it, replace the -01 extent at the end of the part number with -40.  
To order the 3.50" panel with a cable tray, replace the -01 extent at the end of the part number with -41.

## SEISMIC MOUNTING HARDWARE KITS

Kits include floor anchors, mounting doublers (24.38" only) and an assortment of shims. Kits are required for seismic zone four installations compliant with Bellcore Technical Reference TR-NWT-000063 Issue 4. Concrete must be of a normal weight.

Application	Seismic Zone	Part Number
All Relay Racks 19" (98cm) and 23" (58cm)	zone 2	385-2977-00
	zone 3	385-2978-00
	zone 4	385-2979-00
Box enclosures 31.38" (80cm)(W) x 15" (38cm)(D)	zone 4	385-2979-05
Box enclosures 24.38" (62cm)(W) x 15" (38cm)(D)		385-2979-06
Box enclosures 24.38" (62cm)(W) x 24" (61cm)(D)		385-2979-07



## POWERCOM DIVISION

1400 UNION MEETING ROAD  
P.O. BOX 3053  
BLUE BELL, PA 19422-0858  
(215) 619-2700 • FAX (215) 619-7899  
(800) 543-8630  
www.cdpowercom.com

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