

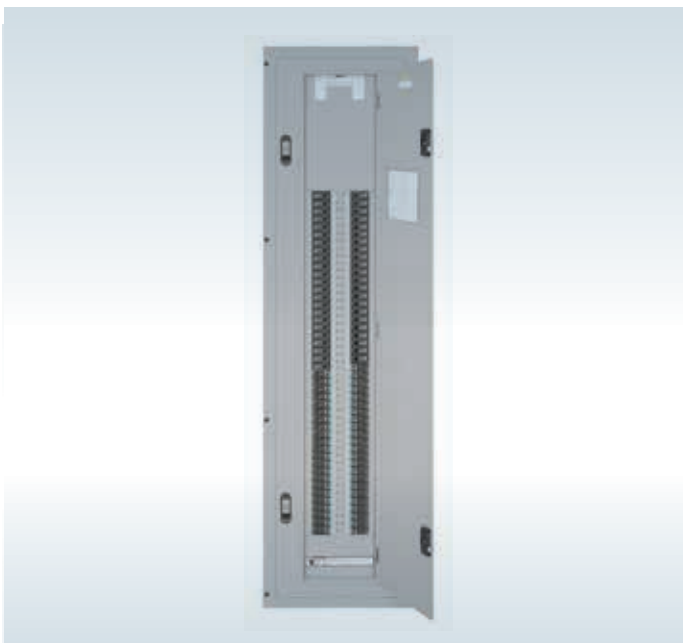
Lighting Panelboards

P2 Panelboards

Features

Flexibility is the hallmark of the P2 panel. This panel offers a wide array of factory-assembled options to meet virtually any lighting panel application. The ability to mix breaker frames within the unit space up to 225 amps will also meet certain distribution panel requirements in a much smaller package. Bussing options for the P2 vary from a typical temperature rating of 750 A/Si aluminum, to 1000 A/Si copper. Standard bussing in the P2 panel is tin-plated. Silver-plated copper is offered as an option. Integrated time clocks, bus mounted contactors (as mains or sub mains), split bus, and subfeed lugs (up to 400 amps) are just a few of the options available in this unique panel.

As with our other lighting panelboards, the standard P2 panel set up includes 18, 30, 42 or 54 breakers. In specific applications, the panel can accept 66, 78 or 90 circuits. The 6" circuit increments allow the user to configure the smallest possible panel size. The P2 starts with 9" of unit space (18 circuits of 1 pole breakers). Breakers mounted in the unit space can be mixed and matched to meet customer requirements. The 1" pole devices (BL, BQD, ED) are mounted in 3" or 6" increments. Breaker frames above 125A are single mounted in a 6" space. An example of a minimum panel is as follows: (6) 20A, 1-pole, BL breakers (3" of unit space) and a 225A, 3-pole, QJ breaker (6" of unit space)



equaling 9" of unit space can be configured in a P2 panel without any extra provisions or space required. FD 250 and JD 400A breakers are mounted outside the unit space.

Another unique feature of the P2 panel is that blank unit space can be added to allow for future expansion or modifications. All expansion or modifications must be in 3" increments. BL, BQD, and ED frame breakers have 3" or 6" pole kits, and can be mixed within unit space by these increments. Breakers of the same frame can cross from one mounting to another if contiguous. QJ/QR frame breakers are mounted in 6" increments for two and three pole, single mounted units. Changes in the unit space length for BL, BQD, or ED frame breakers require an addition deadfront, center strip kit. Check with sales or the factory for additional unit space kits.

Voltage – 600 Vac max.
250V Vdc max.

Amperage – 600 amp max.

Short Circuit Rating – 200 KAIC Max. symmetrical or equal to the lowest rated device installed unless a series rating is indicated. Panels with subfeed or feed-thru lugs without a main device, circuit breaker or fusible unit, are limited to a three-cycle rating. The three-cycle rating for the P2 panel is limited to 22 KAIC. Note that the main device may be mounted remote from the panel.

Bussing – The P2 panel has more options to meet market requirements. The standard bussing is temperature rated aluminum. The rating is per the requirements of UL 67 – the standard for panelboards. All aluminum bussing is tin-plated. Optional bussing for the P2 panel is: 750 A/Si aluminum, temperature rated copper, and 1000 A/Si copper. The copper bus option for this panel is tin-plated.

Weight – Approximate

Total panelboard weight when filled with a normal quantity of breakers and accessories is about 3 lbs. (1 kg) per inch (54g per mm) of box height.

Table P2-1 – Gauge Steel of Boxes Fronts, Surface and Flush

Dimensions in inches (mm)		Gauge Steel	
Width (in.)	Height (in.)	Box	Front
20"	26 - 74	#16	#14
(508)	(660, 1880)		

Standard Circuit P2 Panels (neutral configurations for up to 54 circuits)

Table below shows minimum box size required for the unit space indicated with the main option at the top of each column.

- Adding other options will generally add to the box height when configured in COMPAS. Also, there may be cost adders with each option.
- The maximum number of 1" circuits supported is shown at the bottom of each column in brackets. [54p] = max 54 poles of 1" circuits supported (BL, BQD, ED, xGB).
- Unit space is available in 9", 15", 21", 27", 33", 39" and 45" sizes.
- Within unit space listed, the neutral will support up to 54 circuits.
- When more than 54 circuits are required, COMPAS will configure with larger extended circuit neutral - see Extended Circuit chart below for minimum box sizes.
- Box sizes available: 26", 32", 38", 44", 50", 62", 68" 74"

"B" Dimension Box Height	P2 Panels with Standard Line Lugs. Unit Space (starting with 9" and adding 6" increments) "A" Dimension														
	Main Lugs				Main Breakers										
	125A	250A	400A 600A	125A Horiz. BL, BQD, xGB, ED	125A Vert. ED ^a	125A Horiz. CED	225A Horiz. QJ	225A Vert. QJ ^a	250A Horiz. FD	250A Vert. FD ^a	250A CFD	400A JD	400A CJD	600A LD	600A CLD
26	9	—	—	9	—	—	—	—	—	—	—	—	—	—	—
32	15	9	—	15	9	9	9	—	—	—	—	—	—	—	—
38	21	15	9	21	15	15	15	9	9	—	—	—	—	—	—
44	27	21	15	27	21	21	21	15	15	9	—	—	—	—	—
50	33	27	21	33	27	27	27	21	21	15	9	9	—	—	—
56	39	33	27	39	33	33	33	27	27	21	15	15	—	9	—
62	45	39	33	45	39	39	39	33	33	27	21	21	9	15	9
68	45	45	39	45	45	45	45	39	39	33	27	27	15	21	15
74	45	45	45	45	45	45	45	45	45	39	33	33	21	27	21
	[54p]	[54p]	[54p]	[54p]	[54p]	[54p]	[54p]	[54p]	[54p]	[54p]	[54p]	[54p]	[42p]	[54p]	[42p]

Extended Circuit P2 Panels (neutral configurations for more than 54 circuits)

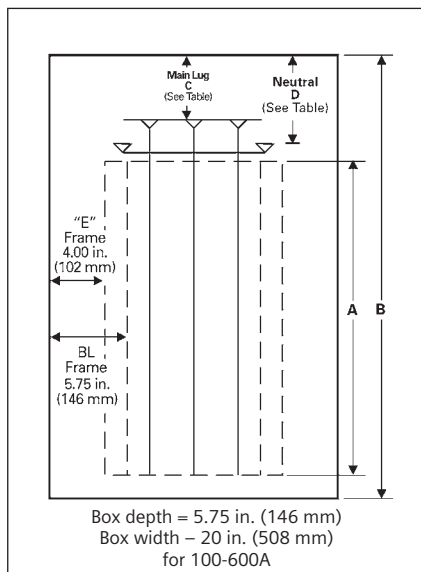
When COMPAS configuration has more than 54 circuits, the large neutral configuration is needed. Box size shown is the minimum available without any options.

- Unit space of 33", 39" and 45" are available.
- Unit space will be reduced by selecting some options such as feed-thru lugs, Surge Protection Devices, and the other subfeed options.
- In general, vertically mounted mains require 6" more box space than equivalent horizontally-mounted mains.
- Neutral configuration supports a maximum of 90 1-pole breakers.

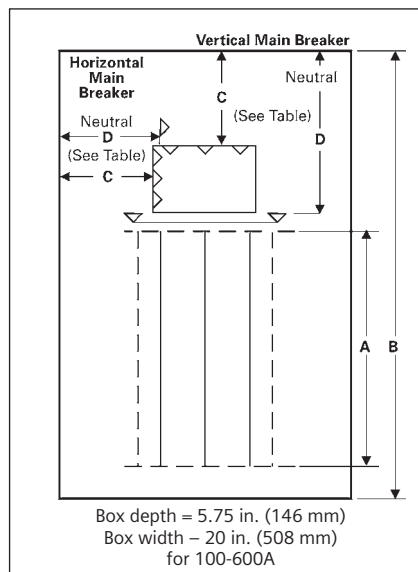
"B" Dimension Box Height	P2 Panels with Standard Line Lugs. Unit Space (starting with 9" and adding 6" increments) "A" Dimension														
	Main Lugs				Main Breakers										
	125A	250A	400A 600A	125A Horiz. BL, BQD, xGB, ED	125A Vert. ED ^a	125A Horiz. CED	225A Horiz. QJ	225A Vert. QJ ^a	250A Horiz. FD	250A Vert. FD ^a	250A CFD	400A JD	400A CJD	600A LD	600A CLD
56	33	—	—	33	—	—	33	—	—	—	N/A	—	N/A	N/A	N/A
62	39	33	33	39	33	33	39	33	—	—	N/A	—	N/A	N/A	N/A
68	45	39	39	45	39	39	45	39	33	—	N/A	—	N/A	N/A	N/A
74	45	45	45	45	45	45	45	45	39	33	N/A	33	N/A	N/A	N/A
	[90p]	[90p]	[90p]	[90p]	[90p]	[90p]	[90p]	[90p]	[78p]	[66p]	[54p]	[66p]	[42p]	[54p]	[42p]

©Note: The vertical main breaker application for ED, QJ, and FD adds 6" of box height.

Main Lug Wire Bending Space Diagram



Main Breaker Wire Bending Space Diagram



Standard Circuit P2 Panels

Main Breaker Wire Bending

Standard Circuits (up to 54 1" module branch poles)			
Panel Amps	Breaker Frames	C ^①	D ^①
100	BL	5.75	8.00
	BQD	5.13	8.00
125	xGB, xGB2	4.63	8.00
	ED (horiz.)	4.00	8.00
	ED (vert.)	6.56	11.13
225	QJ/QR (horiz.)	5.00	7.00
	QJ/QR (vert.)	10.06	16.69
250	FD (horiz.)	5.00	7.00
	FD (vert.)	13.25	22.72
400	JD	15.38	25.00
600	LD	15.38	23.00

Main Lug Connectors

Standard Circuits (up to 54 1" module branch poles)			
Panel Amps	Standard Connectors	C ^①	D ^①
125	(1) #14-2/0	6.62	8.19
250	(1) #6 AWG - 350 MCM	11.75	10.72
400	(1) #4 AWG - 600 MCM or (2) #6 - 250 MCM	14.00	13.09
	(2) #4 AWG - 500 MCM	14.00	11.00

Branch Breaker Side Gutters Inches (mm)

Reference Letter	Panel Width 20" (508)
A	5.750 (146)
B	5.125 (130)
C	4.000 (102)
D ^②	5.000 (127)
E	4.625 (117)

← A →	BL, BLH, HBL	BL, BLH, HBL	← A →
← B →	BLF, BLFH	BLF, BLFH	← B →
← C →	BQD, BQD6	BQD, BQD6	← C →
← D →	ED4, ED6	ED4, ED6	← D →
← E →	HED4, HHED6	HED4, HHED6	← E →
← D →	QJ2, QJH2, QJ2H, QR2, QRH2, HQR2, HQR2H (Single Mounted)		← D →
← E →	NGB, HGB, LGB	NGB, HGB, LGB	← E →
← E →	NGB2, HGB2, LGB2	NGB2, HGB2, LGB2	← E →

Panel Width
20 in. (508 mm)

① Refer to diagrams at the bottom of page 2.
② Single branch mounting construction.

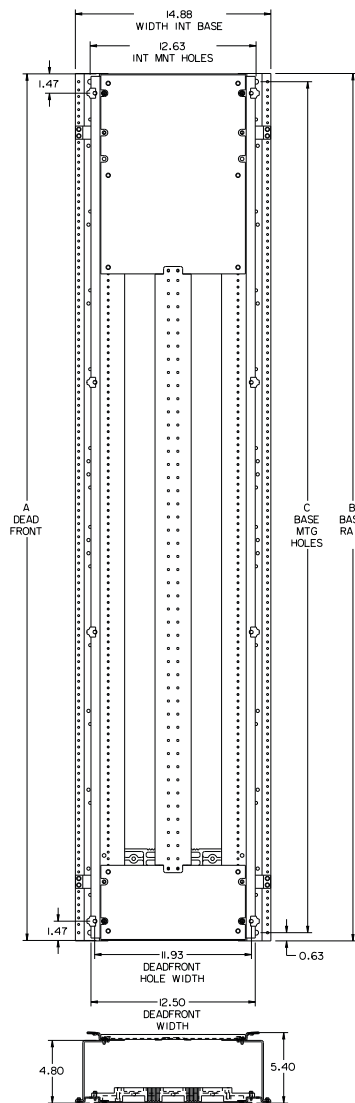
Extended Circuit P2 Panels

Main Breaker Wire Bending

Extended Circuits (more than 54 1" module branch poles)			
Panel Amps	Breaker Frames	C ^①	D ^①
100	BL	5.75	6.56
	BQD	5.13	6.56
125	xGB, xGB2	4.63	6.56
	ED (horiz.)	4.00	6.56
	ED (vert.)	12.56	14.88
225	QJ/QR (horiz.)	5.00	6.44
	QJ/QR (vert.)	10.06	15.53
250	FD (horiz.)	5.00	5.63
	FD (vert.)	19.25	25.71
400	JD	15.38	23.75
600	LD (54p max)	N/A	N/A

Main Lug Connectors

Extended Circuits (more than 54 1" module branch poles)			
Panel Amps	Standard Connectors	C ^①	D ^①
125	(1) #14-2/0	12.62	8.91
250	(1) #6 AWG - 350 MCM	17.75	13.69
400	(1) #4 AWG - 600 MCM or (2) #6 - 250 MCM	14.00	14.19
	(2) #4 AWG - 500 MCM	14.00	14.23



A	B	C	STANDARD BOX SIZE
17.94	18.00	16.75	26H 20W 5.75D
23.94	24.00	22.75	32H 20W 5.75D
29.94	30.00	28.75	38H 20W 5.75D
35.94	36.00	34.75	44H 20W 5.75D
41.94	42.00	40.75	50H 20W 5.75D
47.94	48.00	46.75	56H 20W 5.75D
53.94	54.00	52.75	62H 20W 5.75D
59.94	60.00	58.75	68H 20W 5.75D
65.94	66.00	64.75	74H 20W 5.75D

PANEL REF: II-D-2107-A0
DEADFRONT REF: II-D-2107-A1 THRU A3
PANEL BASE RAILS: II-D-3015
DEADFRONT RAILS: II-D-3019

Main Breaker Selection^{①⑤}

Ampere Rating	Breaker Type	Maximum Interrupting Rating (kA)			Ref. Catalog No.	Available Trip Values
		240V	480V	600V		
100	BL	10	—	—	BL	15, 20, 25, 30, 35, 40, 50, 60, 70, 80, 90, 100
	HBL	65	—	—	HB	15, 20, 25, 30, 35, 40, 50, 60, 70, 80, 90, 100
	BQD	65	14	—	BQ	15, 20, 25, 30, 35, 40, 50, 60, 70, 80, 90, 100
	BLH	22	—	—	BH	15, 20, 25, 30, 35, 40, 50, 60, 70, 80, 90, 100
125	NGB	100	25	—	NB	15, 20, 25, 30, 35, 40, 50, 60, 70, 80, 90, 100, 125
	HGB	100	35	—	G2	15, 20, 25, 30, 35, 40, 50, 60, 70, 80, 90, 100, 125
	LGB	100	65	—	G3	15, 20, 25, 30, 35, 40, 50, 60, 70, 80, 90, 100, 125
	ED4	65	18	—	E4	15, 20, 25, 30, 35, 40, 50, 60, 70, 80, 90, 100, 125
	ED6	65	25	18	E6	15, 20, 25, 30, 35, 40, 50, 60, 70, 80, 90, 100, 125
	HED4	100	42	—	H4	15, 20, 25, 30, 35, 40, 50, 60, 70, 80, 90, 100, 125
	HHED6	100	65	18	HA	15, 20, 25, 30, 35, 40, 50, 60, 70, 80, 90, 100, 125
	CED6 ^②	200	200	100	CE	15, 20, 25, 30, 35, 40, 50, 60, 70, 80, 90, 100, 125
	NGB2	100	25	—	G4	15, 20, 25, 30, 35, 40, 50, 60, 70, 80, 90, 100, 125
	HGB2	100	35	—	G5	15, 20, 25, 30, 35, 40, 50, 60, 70, 80, 90, 100, 125
LGB2	100	65	—	G6	15, 20, 25, 30, 35, 40, 50, 60, 70, 80, 90, 100, 125	
225	QJ2	10	—	—	QJ	60, 70, 80, 90, 100, 110, 125, 150, 175, 200, 225
	QJH2	22	—	—	QH	60, 70, 80, 90, 100, 110, 125, 150, 175, 200, 225
	QJ2H	42	—	—	Q2	60, 70, 80, 90, 100, 110, 125, 150, 175, 200, 225
	QR2	10	—	—	QR	100, 110, 125, 150, 175, 200, 225
	QRH2	25	—	—	Q4	100, 110, 125, 150, 175, 200, 225
	HQR2	65	—	—	Q5	100, 110, 125, 150, 175, 200, 225
	HQR2H	100	—	—	Q6	100, 110, 125, 150, 175, 200, 225
	FD6	65	35	18	FD	70, 80, 90, 100, 110, 125, 150, 175, 200, 225
	FXD6	65	35	18	FX	70, 80, 90, 100, 110, 125, 150, 175, 200, 225
	HFD6	100	65	25	HF	70, 80, 90, 100, 110, 125, 150, 175, 200, 225
	HFXD6	100	65	25	H2	70, 80, 90, 100, 110, 125, 150, 175, 200, 225
	CFD6 ^②	200	200	100	CF	70, 80, 90, 100, 110, 125, 150, 175, 200, 225
	250	FD6	65	35	18	FD
FXD6		65	35	18	FX	250
HFD6		100	65	35	HF	250
HFXD6		65	35	25	H2	250
CFD6 ^②		200	150	100	CF	50
400	JXD6 ^②	65	35	25	JX	200, 225, 250, 300, 350, 400
	JD6 ^②	65	35	35	J6	200, 225, 250, 300, 350, 400
	HJXD6 ^②	100	65	35	H6	200, 225, 250, 300, 350, 400
	HJD6 ^②	100	65	35	H5	200, 225, 250, 300, 350, 400
	SJD6 ^②	65	35	25	SJ	200, 300, 400
	SHJD6 ^②	100	65	35	S2	200, 300, 400
	CJD6 ^②	200	200	100	CJ	200, 300, 400
	SCJD6 ^②	200	200	100	SC	200, 300, 400
600	LXD6 ^②	65	35	25	LX	450, 500, 600
	LD6 ^②	65	35	25	L6	250, 300, 350, 400, 450, 500, 600
	HLXD6 ^②	100	65	35	HL	250, 300, 350, 400, 450, 500, 600
	600 HLD6 ^②	100	65	35	HO	250, 300, 350, 400, 450, 500, 600
	SLD6 ^②	65	35	25	SL	300, 400, 500, 600
	SHLD6 ^②	100	65	35	S6	300, 400, 500, 600
	CLD6 ^②	200	150	100	CL	300, 400, 500, 600
	SCLD6	200	150	100	C6	300, 400, 500, 600

When an ED4, ED6, HED4, QJ2, QJH2, QJ2H, QR2, QRH2, HQR2, HQR2H, FD6, HFD6, or FXD6 frame main breaker, vertically mounted, is required, price as a main breaker panel and add from the table for the main breaker mounting.

Vertically Mounted Main Breaker

(available in 2-pole or 3-pole)

Ampere Rating	Breaker Type(s)	Unit Space (in.)
100	ED4, ED6, HED4, HHED6	6
225	QJ2, QJH2, QJ2H, FXD6, FD6, HFD6, QR2, QRH2, HQR2, HQR2H	6

Subfeed Breakers (available in 2-pole or 3-pole)

Breaker Type	Mounting Position When Used as Subfeed Breaker	Ampere Ratings For Load	Maximum Interrupting Rating (kA) Symmetrical		
	Vertical		240V AC	480V AC	600V AC
FD6 ^③ , FXD6	Twin	70–250	65	35	22
HFD6 ^③ , HFXD6	Twin	70–250	100	65	25
JD6 ^④ , JXD6	Single	200–400	65	35	25
HJD6 ^④ , HJXD6	Single	200–400	100	65	35

- ① Interchangeable trip main breakers are mounted at top of panel only.
- ② Vertically mounted.
- ③ Twin mounted subfeed breakers are mounted at the bottom of panelboard only and adds 24" to the panel height.
- ④ Subfeed breaker is mounted at bottom of panelboard only. 400 amp subfeed breaker adds 24" to the panel height. (Only for use with MLO).
- ⑤ Factory installed and field installable Service Entrance Barrier kits are now available as required by UL67 (In COMPAS, you must select Service Entrance Required).

Standard Enclosures

Box Height (in.)	Catalog Number				
	Type 1 –Standard Trim			Type 3R	Type 3R/12
	Box	Surface	Flush		
26	B26	S26B	F26B	NR26	WP26
32	B32	S32B	F32B	NR32	WP32
38	B38	S38B	F38B	NR38	WP38
44	B44	S44B	F44B	NR44	WP44
50	B50	S50B	F50B	NR50	WP50
56	B56	S56B	F56B	NR56	WP56
62	B62	S62B	F62B	NR62	WP62
68	B68	S68B	F68B	NR68	WP68
74	B74	S74B	F74B	NR74	WP74

Options For Type 1 Trims

Items must be ordered as manual line item on Spartanburg

Hinged trim – Replace "B" suffix with "H"

Door-in-door – Replace "B" suffix with "D"

Metal card holder – Replace "B" suffix with "M" on standard trim, add "M" suffix on optional trims

Option For 24" Wide Enclosures with Equal Gutter on Both Sides

24" wide with equal gutter on both sides, add "24" as prefix

Breaker Kits and Accessories

Kit Number	Description	Contents
BBKB32 (P2/P3)	BL/BQD 6-pole 3" branch breaker kit	Kit contains top barrier, (3) A/C connectors, (1) B connector, hardware
BBKED32 (P2/P3)	ED 6-pole 3" branch breaker kit	Kit contains breaker support, inter-phase barriers, (3) A/C connectors, (1) B connector, hardware
BBKNB32 (P2/P3)	xGB 6-pole 3" branch breaker kit	Kit contains top barrier, (3) A/C connectors, (1) B connector, hardware
BBKGB32 (P2/P3)	xGB2 P2/P3 3" Branch Breaker Kit	Kit contains top barrier, (3) A/C connectors, (1) B connector, hardware
BBKQ1 (P2)	QJ/QR branch breaker kit for 2 and 3-pole single mount	Kit to contain all connectors and cover plates necessary to mount both 2 and 3-pole breakers
BBKQR1 ^①	P2 branch BKR strap kit for single QR 1-phase/3-phase.	
BBKQR2 ^①	P3 twin BKR mounting kit for QR 1-phase/3-phase.	
DFK1	BL, BQD, ED deadfront kit for 1" pole breakers	Center strips 3", 6", 9", 15", 21" plus mounting hardware
DFFP3	Deadfront filler 3"	3" empty space filler and hardware
DFFP6	Deadfront filler 6"	6" empty space filler and hardware
SEBKP2V1 ^②	BL, BQD Main Service Entrance Barrier (P2 only)	Kit contains barrier, mounting brackets, and hardware
SEBKP2V2 ^②	xGB Main Service Entrance Barrier (P2 only)	Kit contains barrier, mounting brackets, and hardware
SEBKP2V3 ^②	FD, QJ, QR Horizontal Main Service Entrance Barrier (P2, P2 with SEM3, P3)	Kit contains barrier, mounting brackets, and hardware
SEBKP2V4 ^②	FD, QJ, QR Vertical Main Service Entrance Barrier (P2, P2 with SEM3)	Kit contains barrier, mounting brackets, and hardware
SEBKP2V5 ^②	ED Horizontal Main Service Entrance Barrier (P2, P2 with SEM3)	Kit contains barrier, mounting brackets, and hardware
SEBKP2V6 ^{②③}	ED Vertical Main Service Entrance Barrier (P2, P2 with SEM3)	Kit contains barrier, mounting brackets, and hardware
SEBKP1P2P3V1 ^③	JD, LD Service Entrance Barrier Kit (RP1, P1, P2, P3)	Kit contains barrier, mounting brackets, and hardware
BNK2	Branch neutral (P2)	Three tier lug with mounting hardware to increase neutral capacity
P2BK1	P2 250A max. Bonding Kit	Bonding strap and hardware
P2BK2	P2 400A max. Bonding Kit	Bonding strap and hardware
P2BK3	P2 600A max. Bonding Kit	Bonding strap and hardware
BBKQRP1FK	P2 Filler for QR. Horizontal or vertical mount. 1-phase/3-phase	Kit contains all cover plates necessary to change from QJ to QR both 2 and 3-pole breakers.
BBKQRP2FK	P3 Filler for QR. Dual mount horizontal. 1-phase/3-phase	Kit contains all cover plates necessary to change from QJ to QR both 2 and 3-pole breakers. For 1-phase panel, both breakers must change from QJ to QR, cannot have one of each installed.

① Although QR is rated 250A, it is limited to 225A in panelboard.

② Two kits required for P2 Extended Circuit Panels

③ Factory installed and field installable Service Entrance Barrier kits are now available as required by UL67. (In COMPAS, you must select Service Entrance Required.)

Branch Circuit Breakers

Max. Amp Rating	Bolt-On Breaker Type	No. of Poles	Amp Rating	Maximum Interrupting Rating (kA)							Load Connectors
				Volts – AC						DC	
				120	120/240	240	277	480	600	250	
100	BL	1	15 - 70	10	–	–	–	–	–	–	15-20A #14-#10 AWG Cu #12-#10 AWG Al 25-35A #8-#6 AWG Cu #8-#6 AWG Al 40-50A #8-#6 AWG Cu #8-#4 AWG Al 55-70A #8-#4 AWG Cu #8-#2 AWG Al 80-100A #4-#1/0 AWG Cu #2-#1/0 AWG Al
		2	15 - 100	–	10	–	–	–	–	–	
		3	15 - 100	–	–	10	–	–	–	–	
	BL HID	1	15 - 30	10	–	–	–	–	–	–	
		2	15 - 30	–	10	–	–	–	–	–	
	BLR	2	15 - 100	–	–	10	–	–	–	–	
	BLE	1	15 - 30	10	–	–	–	–	–	–	
		2	15 - 60	–	10	–	–	–	–	–	
	BLEH	1	15 - 30	22	–	–	–	–	–	–	
		2	15 - 60	–	22	–	–	–	–	–	
	BLF	1	15 - 30	10	–	–	–	–	–	–	
		2	15 - 60	–	10	–	–	–	–	–	
	BLHF	1	15 - 30	22	–	–	–	–	–	–	
		3	15 - 60	–	22	–	–	–	–	–	
		2	15 - 30	10	–	–	–	–	–	–	
	BGL ^①	3	15 - 30	–	10	–	–	–	–	–	
		1	15, 20	10	–	–	–	–	–	–	
	BAFH	1	15, 20	22	–	–	–	–	–	–	
BLH	1	15 - 70	–	22	–	–	–	–	–		
	2	15 - 100	–	22	–	–	–	–	–		
	3	15 - 100	–	–	22	–	–	–	–		
HBL	1	15 - 70	–	65	–	–	–	–	–		
	2	15 - 100	–	65	–	–	–	–	–		
	3	15 - 100	–	–	65	–	–	–	–		
BQD	1	15 - 100	–	65	–	14	–	–	14		
	2	15 - 100	–	65	–	–	14	–	14		
	3	15 - 100	–	–	65	–	14 ^②	–	14		
125	NGB	1	15 - 125	100	–	–	25	–	–	14	
		2 & 3	15 - 125	–	100	100	–	25 ^②	–	–	
	HGB	1	15 - 125	100	–	–	35	–	–	14	
		2 & 3	15 - 125	–	100	100	–	35 ^②	–	–	
	LGB	1	15 - 125	100	–	–	65	–	–	14	
		2 & 3	15 - 125	–	100	100	–	65 ^②	–	–	
	ED4	1	15 - 125	65	–	–	22	–	–	–	
		2	15 - 125	–	–	65	–	18	–	30	
		3	15 - 125	–	–	65	–	18	–	–	
	ED6	2	15 - 125	–	–	65	–	25	18	30	
		3	15 - 125	–	–	65	–	25	18	–	
		1	15 - 125	100	–	–	–	–	–	–	
	HED4 ^③ HHED6	2	15 - 125	–	–	–	65	–	–	–	
		3	15 - 125	–	–	100	42	42	–	30	
	NGB2	1	15 - 125	100	–	–	25	–	–	14	
		2 & 3	15 - 125	–	100	100	–	25	–	–	
	HGB2	1	15 - 125	100	–	–	35	–	–	22	
		2 & 3	15 - 125	–	100	100	–	35	–	–	
LGB2	1	15 - 125	100	–	–	65	–	–	25		
	2 & 3	15 - 125	–	100	100	–	65	–	–		
225	QJ2	2 & 3	60 - 225	–	–	10	–	–	–		
		2 & 3	60 - 225	–	–	22	–	–	–		
	QJ2H	2 & 3	60 - 225	–	–	42	–	–	–		
	QR2	2 & 3	100-225	–	–	10	–	–	–		
	QRH2	2 & 3	100-225	–	–	25	–	–	–		
	HQR2	2 & 3	100-225	–	–	65	–	–	–		
	HQR2H	2 & 3	100-225	–	–	100	–	–	–		

NOTE: QJ Breakers are single mounted in nit space and take 6" of unit space. Limited to (3) per panel max. BL, HBL, HBL and BQD breakers are mounted in common mountings in 3" or (6) pole increments. ED4, ED6, HED4 and HHED6 breakers are mounted in common mountings in 3" or (6) pole increments. xGB breakers are mounted in common mounting in 3" or (6) pole increments.

① Two pole breaker is one phase and neutral. Three pole is two phase and neutral.

② For use on 480Y/277 volt systems not suitable for 480 delta 3 phase 3 wire systems.

③ 1-Pole HED 4 15–30A Rated 65kA. 35-100A Rated 25kA.

Box Size Additions for Optional Features

Options	Main Lugs				Main Breakers											
	125A	250A	400A	600A	125A Horiz. BL, BQD, ED, xGB	125A Horiz. CED	125A Vert. ED	225A Horiz. QJ	225A Vert. QJ	225A Horiz. FD	250A Vert. FD	250A Vert. CFD	400A JD	400A CJD	600A LD	600A CLD
*Min. Box Size	26"	32"	38"	38"	26"	32"	32"	32"	38"	38"	44"	50"	50"	62"	56"	62"
200% Neutral (Lug Type)	0	0	6 (all)	6 (all)	0	0	0	N/A	0	N/A	0	0	0	0	0	0
Std. Lugs (100% Neut. PNL)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CU Lugs (100% Neut. PNL)	6	6	6	0	N/A	N/A	0	N/A	0	N/A	0	0	0	0	0	0
Comp Lugs (100% Neut. PNL)	6	6	6	6	N/A	N/A	0	N/A	0	N/A	0	0	0	0	0	0
Feed-thru Standard Lugs	6	6	12	12	6	6	6	N/A	6	N/A	6	6	12	12	12	12
Feed-thru Cu Lugs	6	6	12	N/A	N/A	N/A	6	N/A	6	N/A	6	6	12	12	N/A	N/A
Feed-thru Comp Lugs	6	12	12	N/A	N/A	N/A	6	N/A	6	N/A	12	12	12	12	N/A	N/A
Subfeed Standard Lugs	0	6	6	N/A	—	—	—	—	—	—	—	—	N/A	—	—	—
Split Bus	6	6	6	6	6	6	6	N/A	6	N/A	6	6	6	6	6	6
(1) FD Subfeed (Horizontal Mtg.)	N/A	12	12	12	N/A	N/A	N/A	N/A	N/A	12	12	12	12	12	12	12
(2) FD Subfeed (Vertical Mtg.)	N/A	24	24	24	N/A	N/A	N/A	N/A	N/A	24	24	24	24	N/A	N/A	N/A
SPD	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12

Split bus is paired with feed-thru lugs by default. Feed-thru lugs are to feed the section after the split.

NOTE: N/A = OPTION NOT AVAILABLE

*Min. Box Size, corresponding to 9" of Unit Space.

Compression Lugs

Style	Amp Rating	Breaker Type	Compression Connectors	Box Height Addition
MLO	125	N/A	(1)#6 - 350 kcmil Al/Cu	6
	250	N/A	(1)#6 - 350 kcmil Al/Cu	6
	400	N/A	(1) 400 - 600 kcmil Cu or (2)#6 - 350 kcmil Al/Cu	6
	600	N/A	(2)#6 - 350 kcmil Cu or Cu/Al or 400 - 600 kcmil Al/Cu	6
Main Breaker	100	ED4, ED6, HED4 HHED6, CED6 [Ⓞ]	(1)#14-2/0 AWG Cu or Al	Box must go to 24" wide on CED6 breaker only Add 6" to box height for NØ
	225	QJ2, QJH2, QJ2H, QR2, QRH2, HQR2, HQR2H	(1)#6 AWG - 350 kcmil Cu or Al	Box must go to 24" wide
	250	FXD6, HFD6, CFD6	(1)#6 AWG - 350 kcmil Cu or Al	Box must go to 24" wide for all breakers Requires an additional 6.0" box height
	400	JD6, JXD6, HJD6, CJD6, SJD6, SHJD6, SCJD6	(2)#1/0 AWG - 500 kcmil Cu or Al	9
	600	LD6, LXD6, HLD6, CJD6, SLD6, SHLD6, SCLD6	(2)#2/0 AWG - 500 kcmil Cu or Al	6

Alternate Lugs

Style	Amp Rating	Breaker Type	Standard AL Connectors	Box Height Addition
MLO	400	N/A	(1) 250 - 750 kcmil or (2)#3/0 AWG - 250 kcmil Cu or Al	6
Main Breaker	400	JD6, JXD6, HJD6, CJD6, SJD6, SHJD6, SCJD6	(1)#4/0 AWG - 750 kcmil Cu or Al	6

[Ⓞ] Not available for feed thru lug.

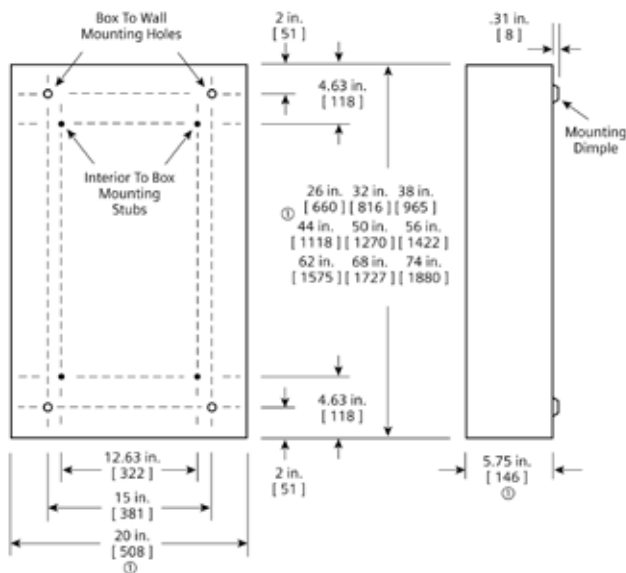
Modifications and Dimensions

Panel Options, Enclosures

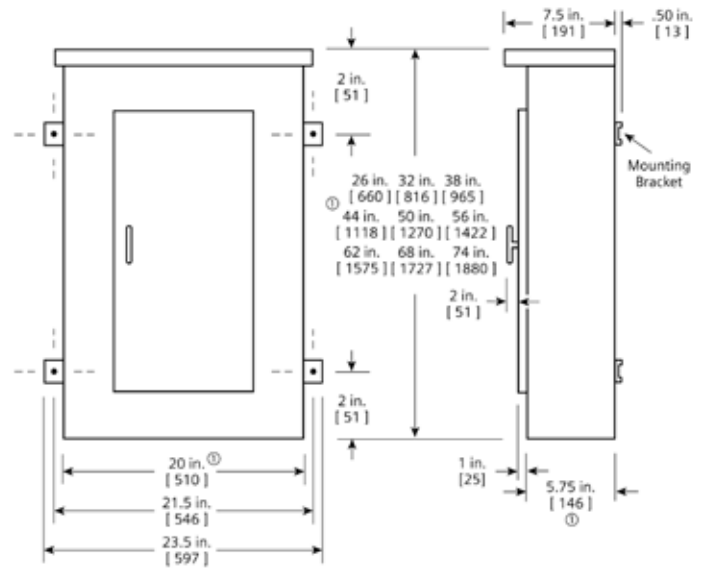
- Extra gutter to sides or ends of the can
- 24" wide boxes
- Hinged trims
- Door-in-door trims
- Screw to the box trims
- Trim mounted devices (Devices mounted and wired to the trim should also have hinged trim specified.)
 - Pilot lights
 - Toggle switches
 - Push buttons
- Painted boxes
- Custom colors
- Increase gauge trims and boxes
- Stainless steel trims and boxes, Type 1
- Aluminum trims and boxes, Type 1
- NEMA 3R enclosures
- NEMA 3R/12 enclosures
- NEMA 4 enclosures
- NEMA 4X enclosures
- Special keyed locks
 - TEY
 - TEU1
 - Cat 60
 - LL803
 - LL806
 - Yale
- Meters (Contact application engineering for space requirements.)
- Panel skirts
- Gaskets between trim and box
- Factory installed and field installable Service Entrance Barrier kits are now available as required by UL67 (In COMPAS, you must select Service Entrance Required)

Type P2 Dimensions

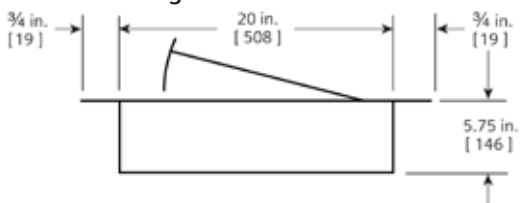
Type 1 Box (Box is Symmetrical)



Type 3R and 3R/12 Box



Flush Mounting



① Dimensions are interior of the box. Add 5/8" to width for absolute dimension. Add 1/8" to height for absolute dimension. Dimensions shown in inches and millimeters [].

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