

A2.12

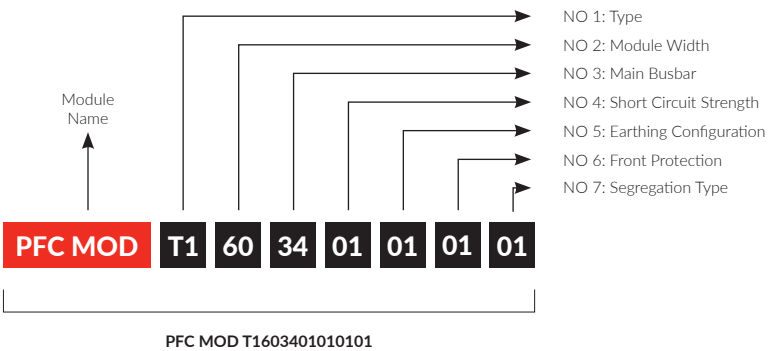
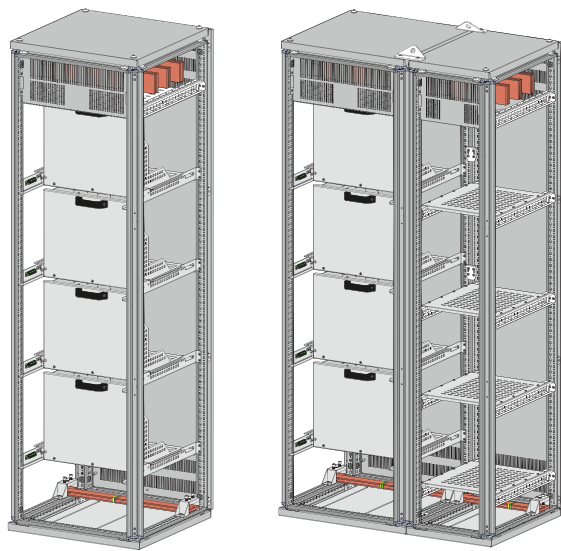
PFC (COMPENSATION) MODULE

12/2022



PDS
UPGRADE THE POWER

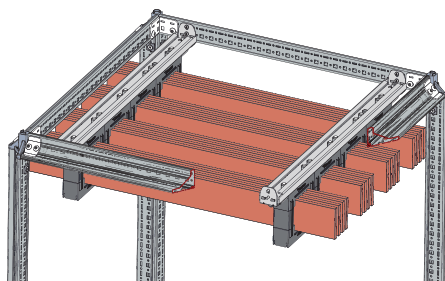
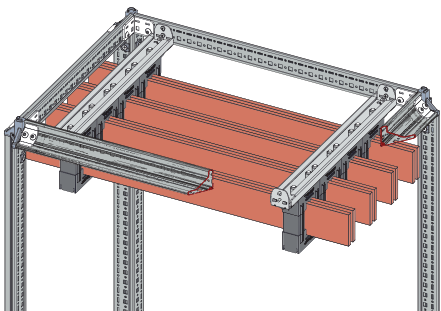
SELECTION CHARACTERISTICS



NO 1		NO 3		NO 2			NO 4		NO 6		NO 5			NO 7	
Selection Code	Type	Selection Code	Module Width (W)	Selection Code	Main Busbar (In)	Module Depth (D)	Selection Code	Short Circuit Strength (Icw)	Selection Code	Earthing Config	Selection Code	Front Protection	Door Type	Selection Code	Segregation Type
T1	1	40	400	00	Without Busbar	600/800	01	65kA	01	TN-S (1/1)	S	Internal	Solid Door	01	Form 1
T2	2	60	600	13	1350A	600	02	85kA	02	TN-S (1/2)	G		Glazed Door	02	Form 2a
				16	1620A				03	TN-C (PEN) (1/2)				03	Form 2b
				18	1860A				04	TN-C-S (1/2)				04	Form 3a
				23	2300A				05	TT (1/1)				05	Form 3b
				25	2500A	800			06	TT (1/2)				06	Form 4a
				30	3000A				07	IT				07	Form 4b
				34	3400A										
				40	4000A										

!Notice: T2 consists of 2 panels as 600W+ 400W.

NO 1: MAIN BUSBAR

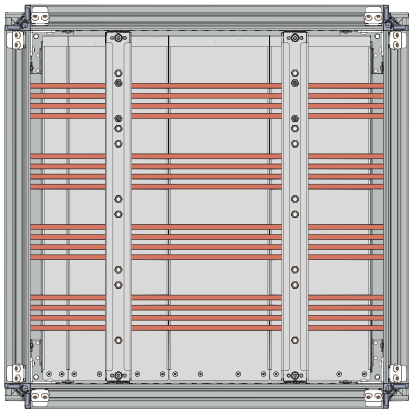


AMBIANCE TEMP : 25°C , HEATING TEMP : 30°C ,50 Hz A.C.				
Neutral Section	Rated Current (In)	Flat Copper Size (mm) x Qty		
		L1/L2/L3	Neutral(N)	PE
1/2 N	1350A	40/10x2	40/5x2	20/5x2
1/1 N	1350A	40/10x2	40/10x2	40/5x2
1/2 N	1620A	50/10x2	50/5x2	25/5x2
1/1 N	1620A	50/10x2	50/10x2	50/5x2
1/2 N	1860A	60/10x2	60/5x2	30/5x2
1/1 N	1860A	60/10x2	60/10x2	60/5x2
1/2 N	2300A	80/10x2	40/10x2	40/5x2
1/1 N	2300A	80/10x2	80/10x2	40/10x2

AMBIANCE TEMP : 25°C , HEATING TEMP : 30°C ,50 Hz A.C.				
Neutral Section	Rated Current (In)	Flat Copper Size (mm) x Qty		
		L1/L2/L3	Neutral(N)	PE
1/2 N	2500A	40/10x4	40/10x2	40/5x2
1/1 N	2500A	40/10x4	40/10x4	40/10x2
1/2 N	3000A	50/10x4	50/10x2	50/5x2
1/1 N	3000A	50/10x4	50/10x4	50/10x2
1/2 N	3400A	60/10x4	60/10x2	60/5x2
1/1 N	3400A	60/10x4	60/10x4	60/10x2
1/2 N	4000A	80/10x4	80/10x2	40/10x2
1/1 N	4000A	80/10x4	80/10x4	80/10x2

■ NO 2: PFC (COMPENSATION) MODULE

Icw : 65kA/85kA



Maximum assembly distance between
busbar support;
-65 kA/85 kA 550mm (center to center)

■ NO 3: EARTHING BAR

Earthing Bar



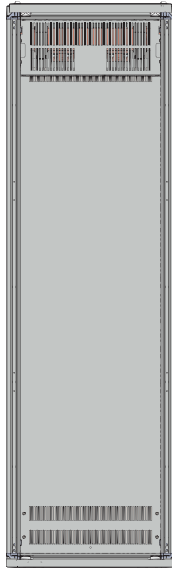
Selection Code	Power Supply Form (Size Scale of N)	Sections of Main Phases (L1/L2/L3) : 1		
		Main Busbar Size: A	Vertical Distribution Busbar Size: B	Cabling Module (Based from Vertical Busbar)
01	TN-S (1/1)	N(A/1) + PE(A/2)	L1+L2+L3+N(B/1)	PE(B/2)
02	TN-S (1/2)	N(A/2) + PE(A/4)	L1+L2+L3	N(B/2) + PE(B/4)
03	TN-C (PEN) (1/2)	PEN(A/2) + PE	L1+L2+L3	PEN(B/2)
04	TN-C-S (1/2)	PEN(A/2) + PE(A/4)	L1+L2+L3	(TN-C : PEN(B/2)) + (TN-S:N(B/2) + PE(B/4))
05	TT (1/1)	N(A/1) + PE	L1+L2+L3+N(B/1)	NONE
06	TT (1/2)	N(A/2) + PE	L1+L2+L3	N(B/2)
07	IT	PE(A/4)	L1+L2+L3+N(1/1)	PE(B/4)

N: Neutral PE: Earthing PEN: N+PE

! Note : See for more details about power supply forms: Section C, Item 3. Equipotentiality and electrical continuity

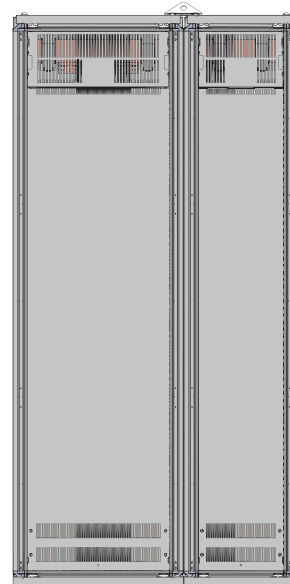
■ NO 4: PFC (COMPENSATION) MODULE

Type 1
600mm Width



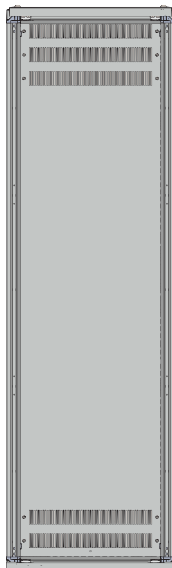
! Usable Height for PFC Module with Solid Door and Glazed Door is 1700 mm when using main busbar.

Type 2
600mm+400mm Width



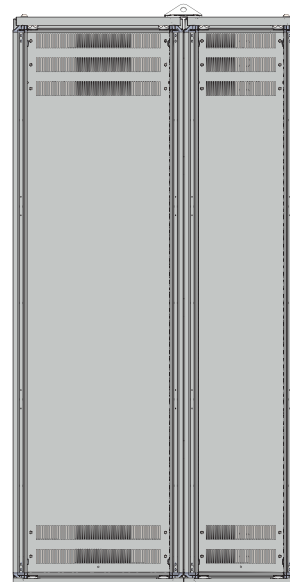
! **Note:** 400mm width PFC Module is added only to put the harmonic filter.
! Usable Height for PFC Module with Solid Door and Glazed Door is 1700 mm when using main busbar.

Type 1
600mm Width
(Without Busbar)



! Usable Height for PFC Module with Solid Door and Glazed Door is 1900 mm when main busbar is not used.

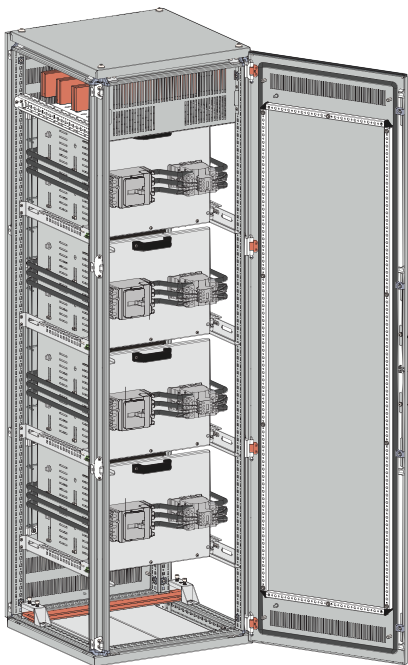
Type 2
600mm+400mm Width
(Without Busbar)



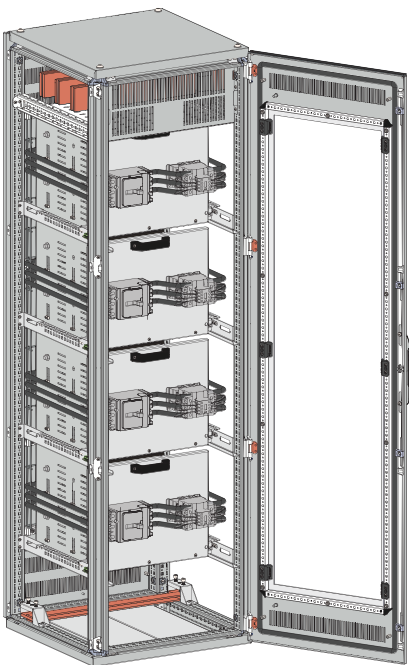
! **Note:** 400mm width PFC Module is added only to put the harmonic filter.
! Usable Height for PFC Module with Solid Door and Glazed Door is 1900 mm when main busbar is not used.

■ NO 5: FRONT PROTECTION

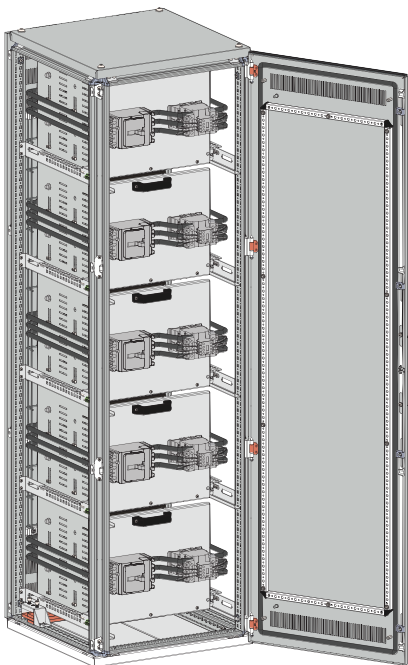
Solid Doors (Type 1)



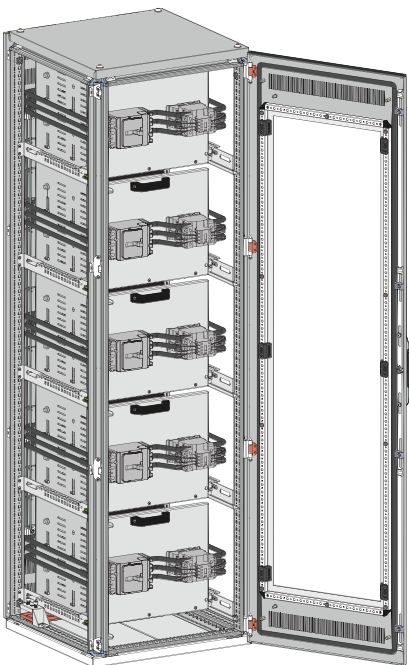
Glazed Doors (Type 1)



Solid Doors
(Type 1-Without Busbar)



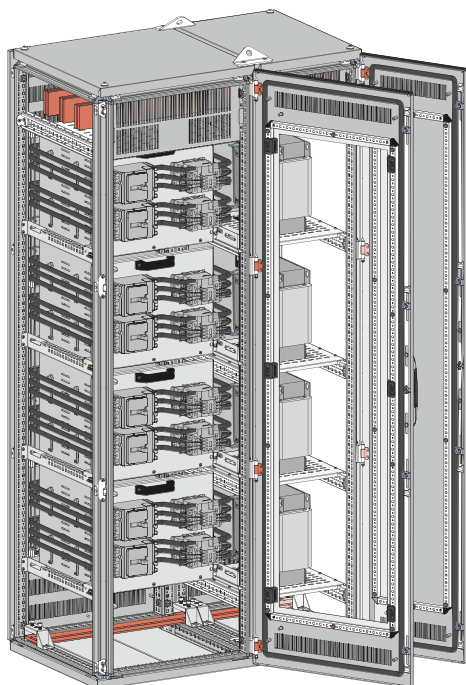
Glazed Doors
(Type 1-Without Busbar)



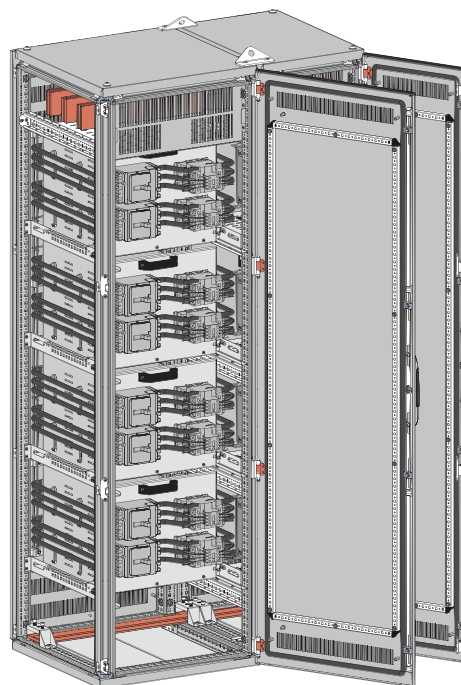
! Notice: PFC Module is only available with solid door and glazed door.
! Notice: Only solid door is used in 400W panel.

■ NO 5: FRONT PROTECTION

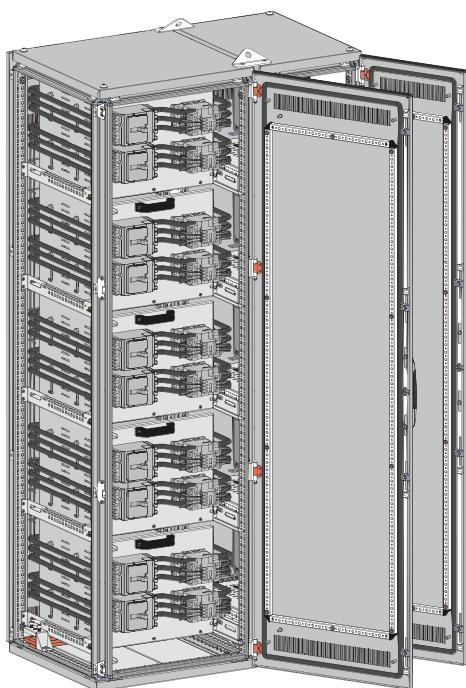
Solid Doors (Type 2)



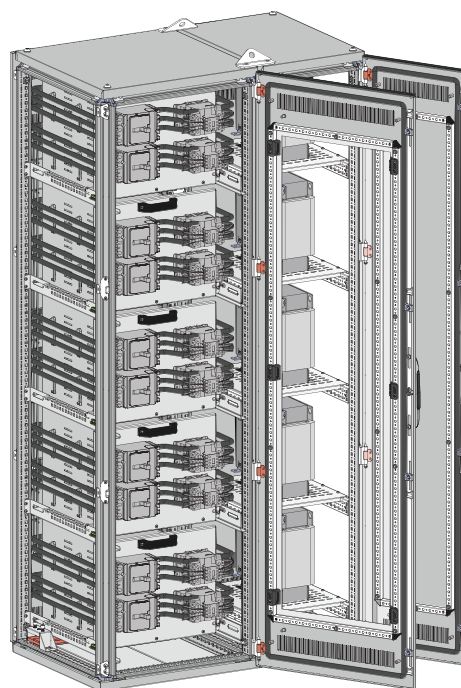
Glazed Doors (Type 2)



Solid Doors
(Type 2-Without Busbar)



Glazed Doors
(Type 2-Without Busbar)

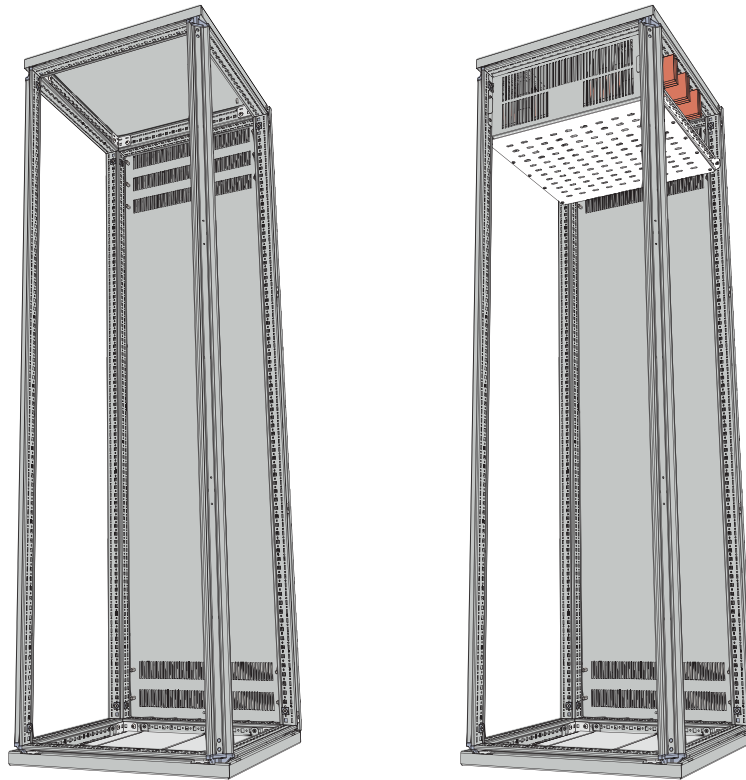


! Notice: PFC Module is only available with solid door and glazed door.

! Notice: Only solid door is used in 400W panel.

■ NO 6: SEGREGATION TYPE

FRONT PROTECTION TYPE 1

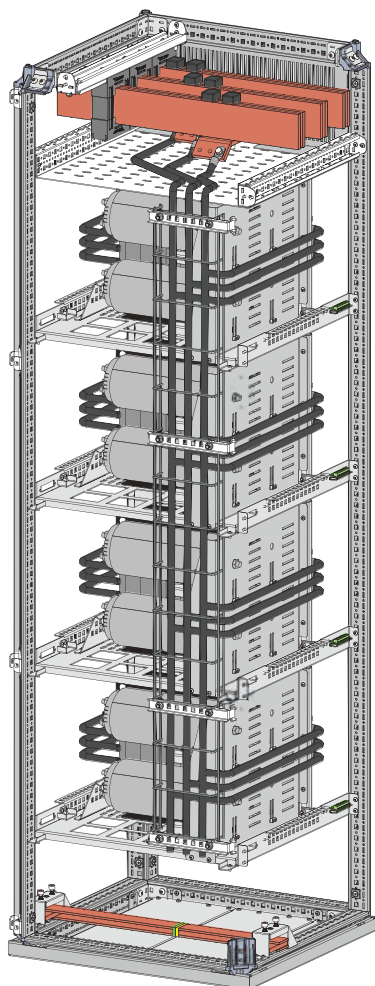


FRONT PROTECTION TYPE 2

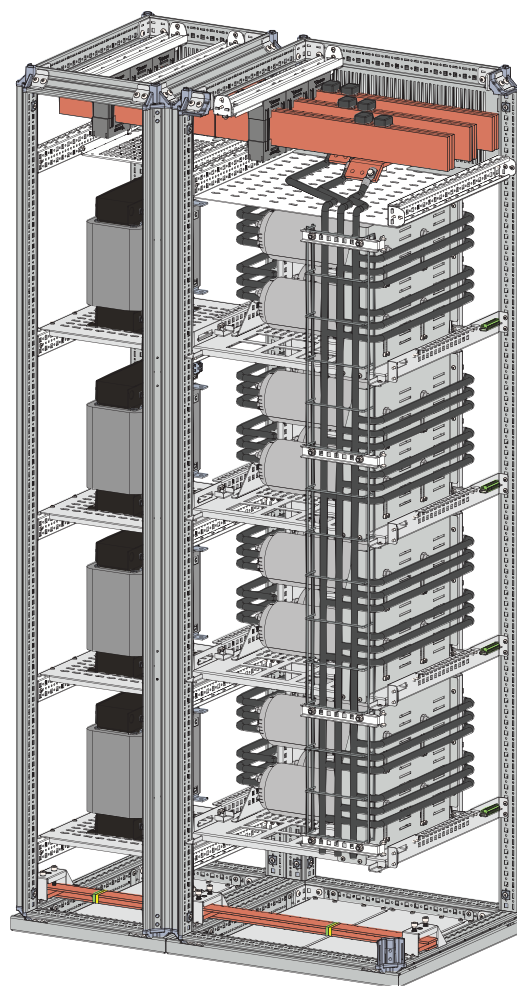


! PFC Module is designed to base on Form 1/2a/2b.

■ NO 7: MAIN BUSBAR CONNECTION

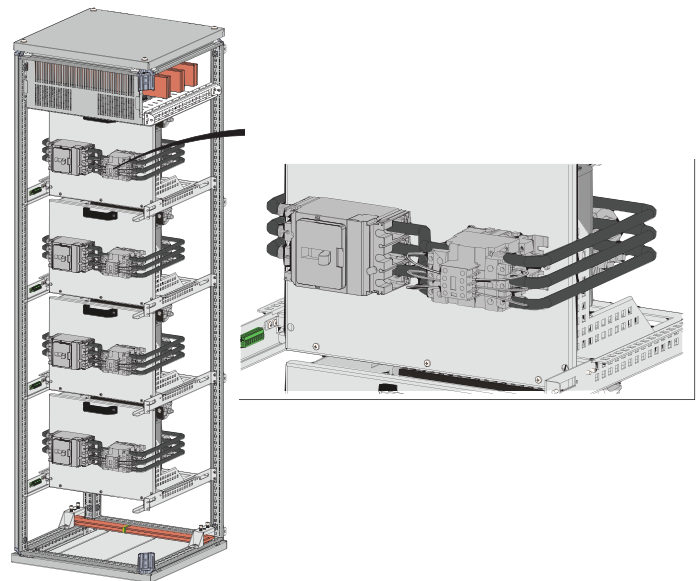
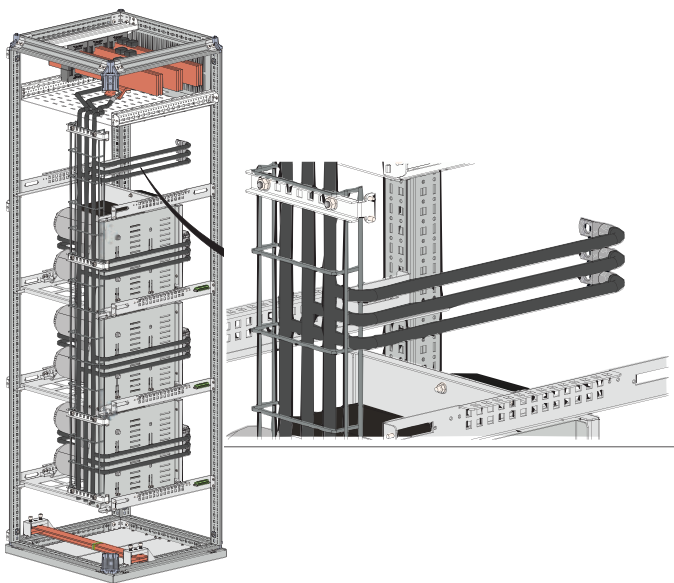
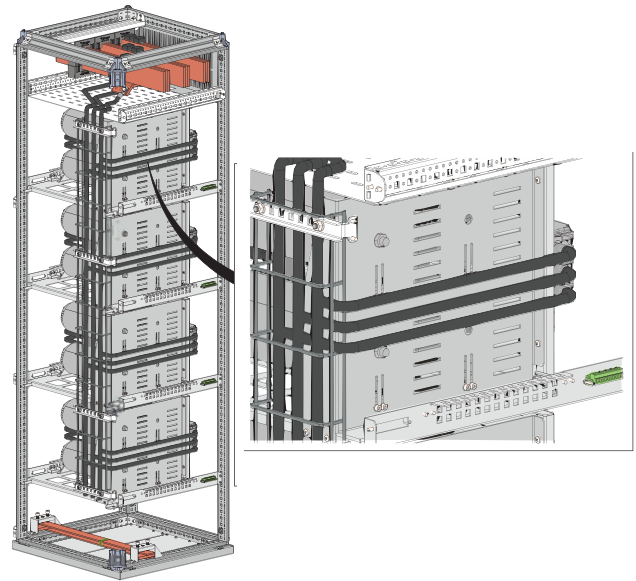
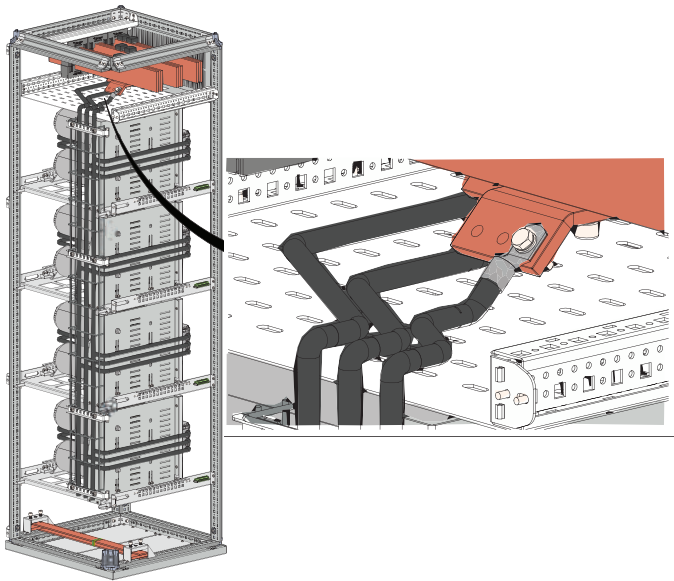


Type 1 - Main busbar connection for PFC Module.



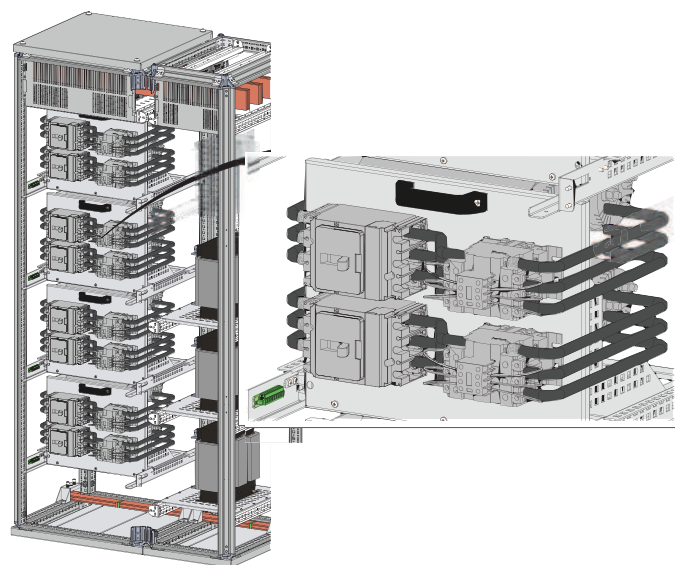
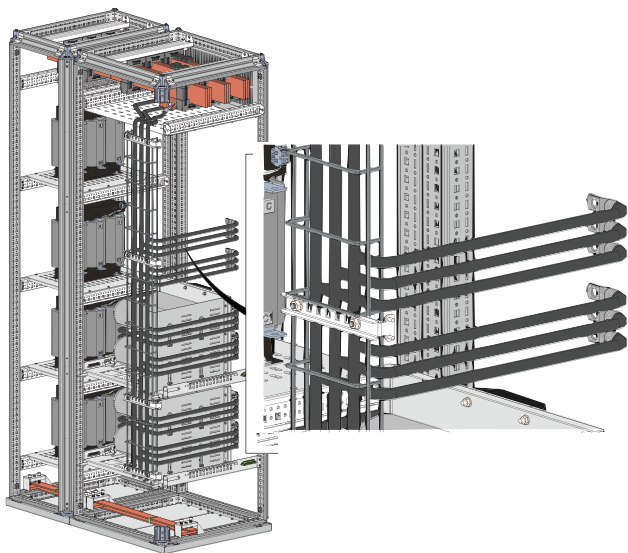
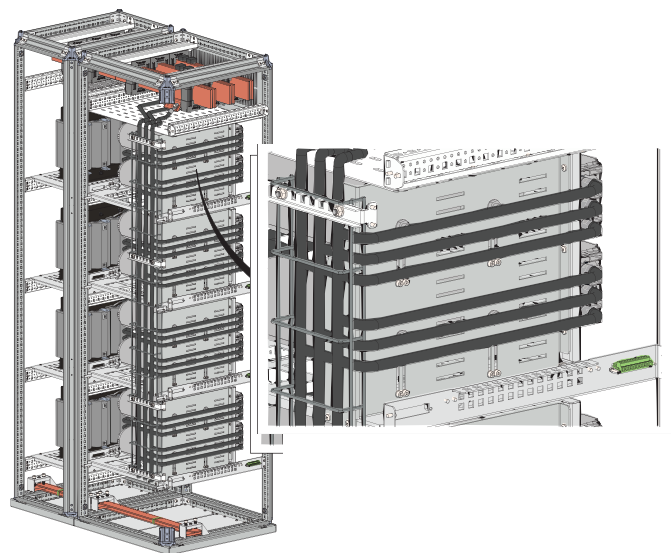
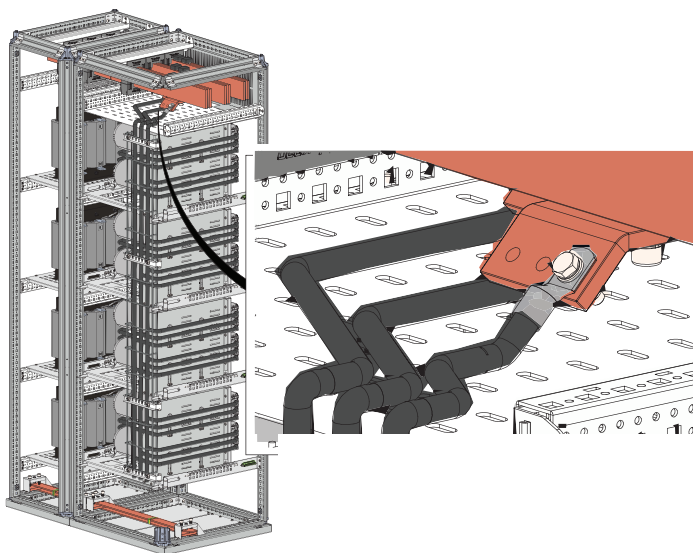
Type 2 - Main busbar connection for PFC Module.

■ NO 7: MAIN BUSBAR CONNECTION



Type 1

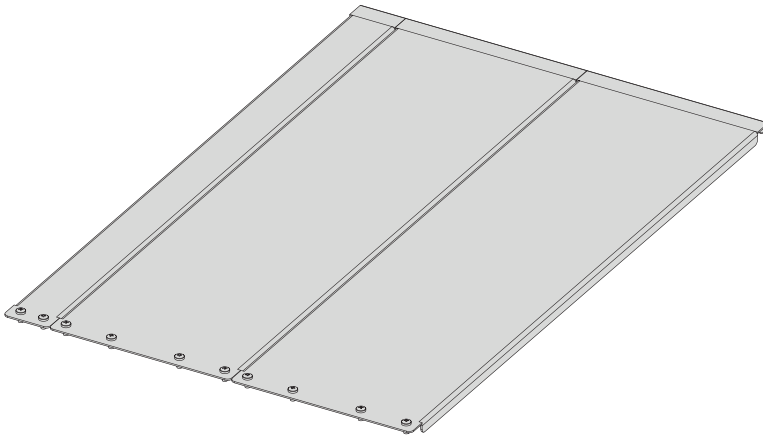
■ NO 7: MAIN BUSBAR CONNECTION



Type 2

■ OPTIONAL PARTS

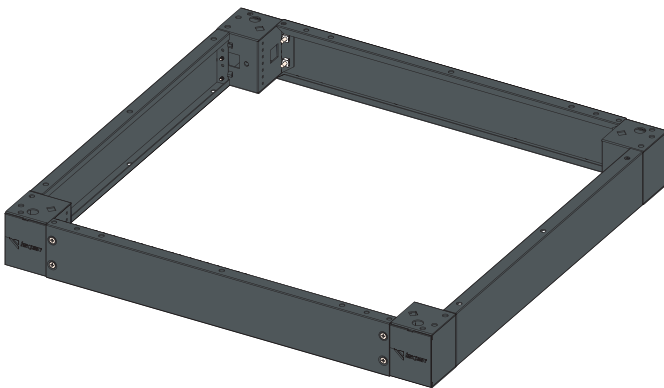
GLAND PLATES



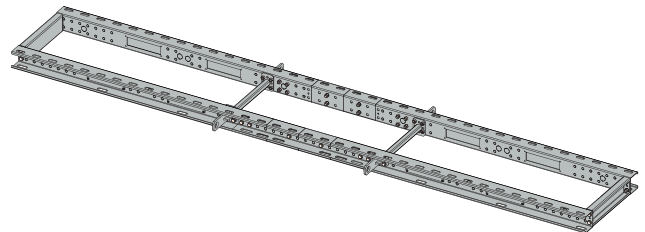
- Standard protection is IP 54
- Requires cable gland for cable management.
- Useful for cable entry from bottom position.
- Useful as a closer while using ACB rear cable module

! Gland Plates are optional products. They are not included configurations. Must be selected additionally. Check the selection guide.

PLINTH/ BASE



- Two options in height : 100mm or 200mm
- For transportation of switchboard , top hooks must to use.

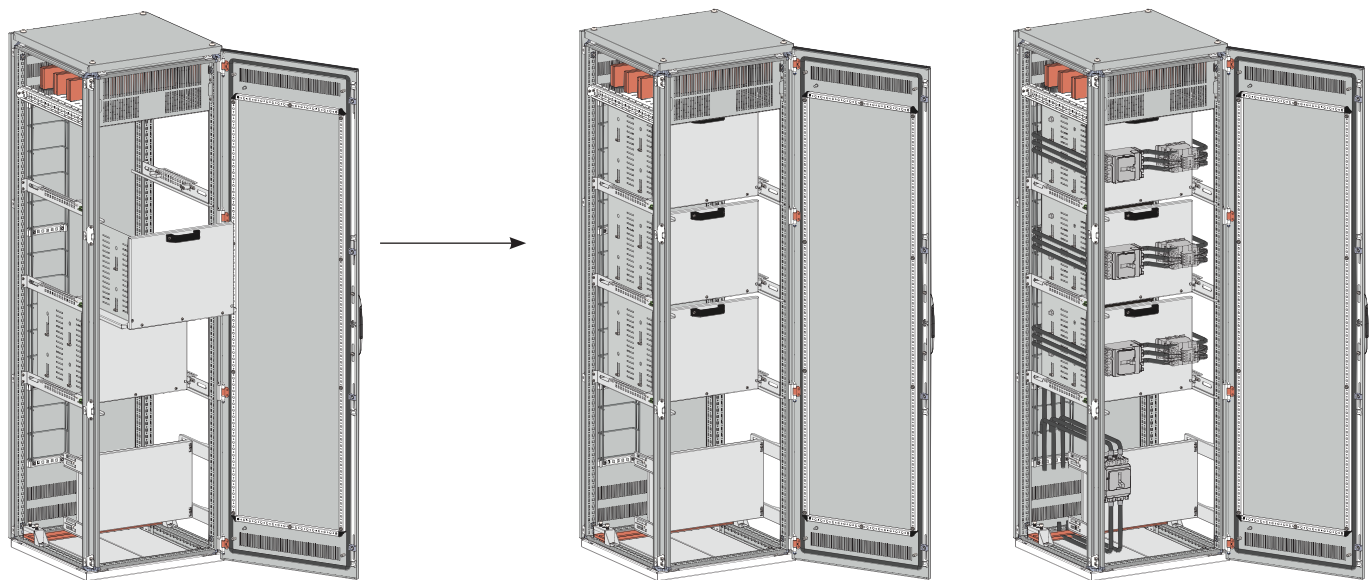


- Only option in height : 100mm
- Modules can fix directly on it. Means it is also joining part for modules
- Thanks to hooks on it , it can be use as a transportation part for the group of switchboard.
- In tight ceiling situations, it can be move with roll bars.

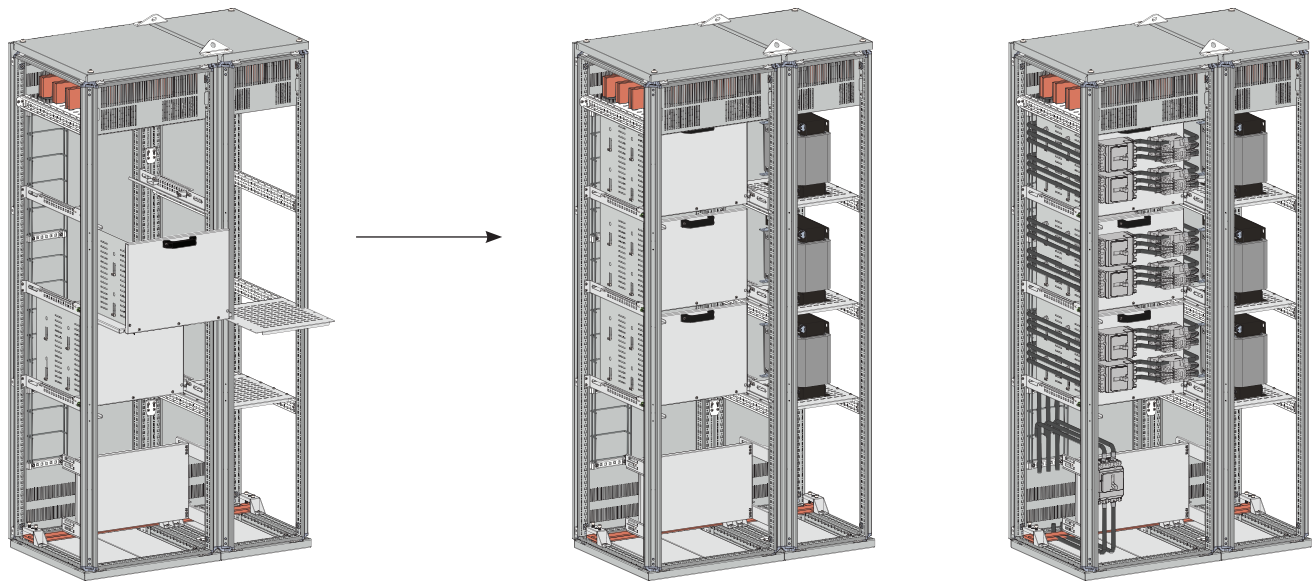
! Plinths are optional products. They are not included configurations. Must be selected additionally. Check the selection guide.

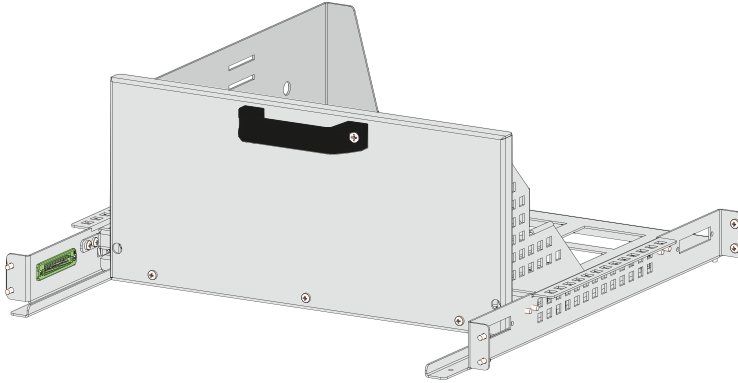
LOADINGwith DRAWERS

Type 1

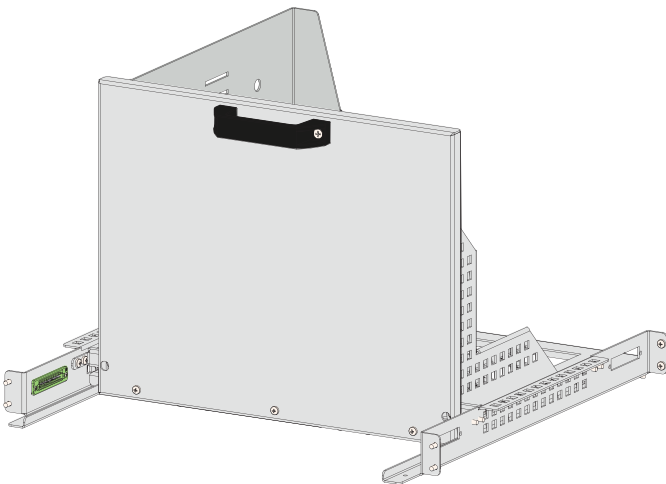


Type 2



225H PFC(Compensation) Drawer

- 225H Drawer has 200mm loading height solutions.
- Only 600mm Width Option.
- PFC Drawer come with standart Form-2 solution. The selection Form type of cassette must be the same as Module Form Type.
- 225H Drawer supports maximum one step.
- Only capacitor can be installed.
- Maximum two capacitors can be installed.
- See at Drawer Manuals.

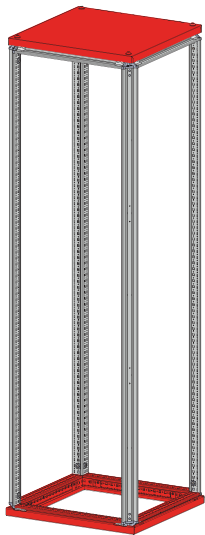
375H PFC(Compensation) Drawer

- 375H Drawer has 350mm loading height solutions.
- Only 600mm Width Option.
- PFC Drawer come with standart Form-2 solution.The selection Form type of cassette must be the same as Module Form Type.
- 375HDrawer supports maximum two steps.
- Maximumfour capacitors can be installed.
- One Detuned filter and maximum two capacitors can be installed together in 375HDrawer.
- See at Drawer Manuals

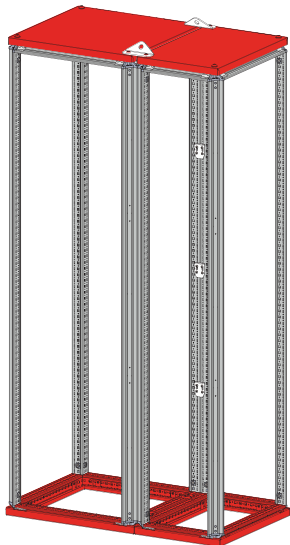


1.MAIN FRAME

1.1 TOP&BOTTOM GROUP



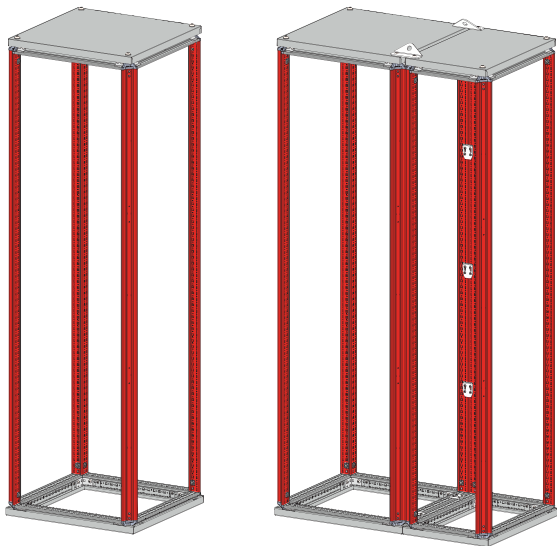
TYPE 1				
WIDTH(W)	DEPTH(D)	REF. NO.	REQUIRED QTY. (set)	
600	600	1001.662	1	1350A~2300A
600	800	1001.682	1	2500A~4000A



TYPE 2				
WIDTH(W)	DEPTH(D)	REF. NO.	REQUIRED QTY. (set)	
600	600	1001.662	1	1350A~2300A
400		1001.462	1	
600	800	1001.682	1	2500A~4000A
400		1001.482	1	

- Package includes **1x Upper Frame, 1x Bottom Frame, Assembly Parts.**
- Type 2 consists of a combination of two panels. (exp. 600W-600D + 400W-600D or 600W-800D + 400W-800D).

1.2 VERTICAL FRAME GROUP



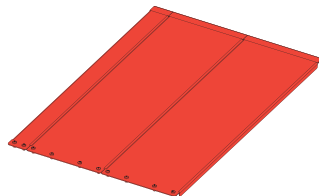
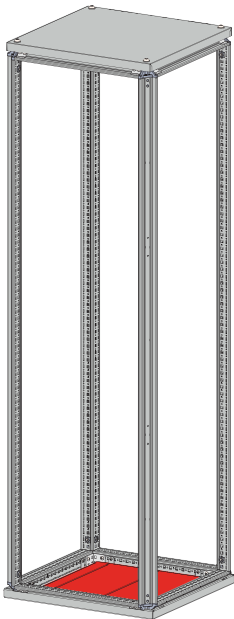
MODULE TYPE	HEIGHT(H)	REF. NO.	REQUIRED QTY. (set)
TYPE 1	2000	702.200	1
TYPE 2	2000	702.200	2

- Package includes **1 Set=4 pcs. Vertical Profile.**

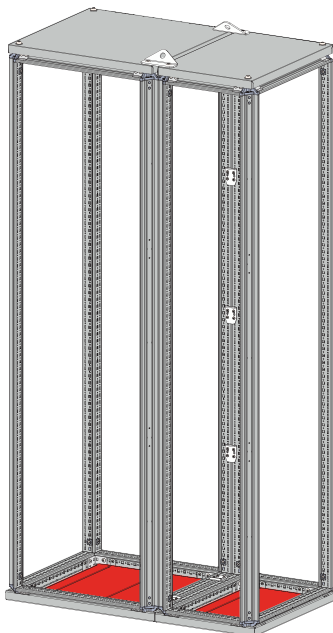


■ 1.3 GLAND PLATES

■ 1.3.1 BLANK GLAND PLATE



TYPE 1				
WIDTH(W)	DEPTH(D)	REF. NO.	REQUIRED QTY. (set)	
600	600	1005.166	1	1350A~2300A
600	800	1005.168	1	2500A~4000A

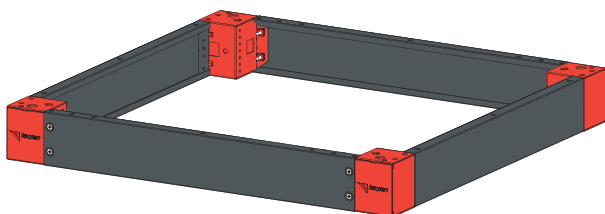


TYPE 2				
WIDTH(W)	DEPTH(D)	REF. NO.	REQUIRED QTY. (set)	
400	600	1005.146	1	1350A~2300A
600		1005.166	1	
400	800	1005.148	1	2500A~4000A
600		1005.168	1	

- Package includes **1 Set=3/4 pcs. Gland Plates related with Width.**
- When Type 2 is selected, 400W Panel and 600W Panel are used together.

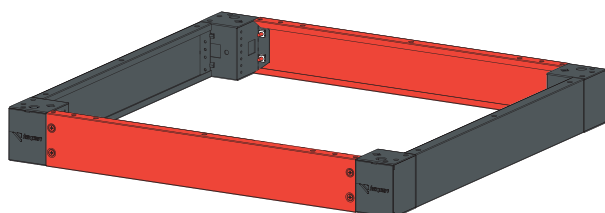
1.4 PLINTH /BASE

1.4.1 MODULAR PLINTH/BASE



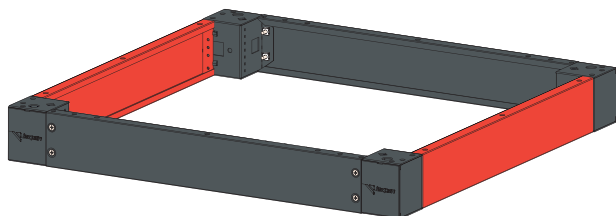
MODULE TYPE	HEIGHT(H)	REF. NO.	REQUIRED QTY. (set)
TYPE 1	100	708.100	1
	200	708.200	1
TYPE 2	100	708.100	2
	200	708.200	2

- Package includes **1 Set=4 pcs. 100mm/200mm Height Plinth Corner, 4 pcs. Plastic Cover.**
- Type 1 consists of a single panel.
- When Type 2 is selected, 400W Panel and 600W Panel are used together.



MODULE TYPE	HEIGHT(H)	REF. NO.	REQUIRED QTY. (set)
TYPE 1	600	709.160	1
TYPE 2	400	709.140	1
	600	709.160	1

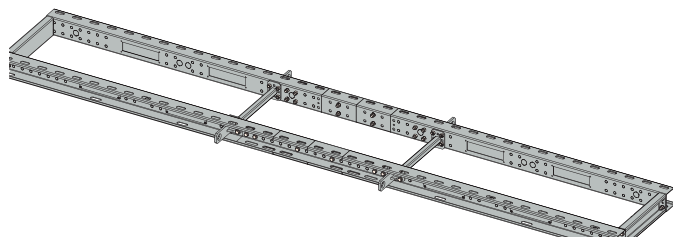
- Package includes **1 Set=2 pcs. 100mm Height Front Cover.**
- **2 Set(4 Pieces)** needed for 200H Plinth.
- Type 1 consists of a single panel.
- When Type 2 is selected, 400W Panel used. Also 400W Panel and 600W Panel are used together in Type 2.



MODULE TYPE	HEIGHT(H)	REF. NO.	REQUIRED QTY. (set)
TYPE 1	600	710.160	1
	800	710.180	1
TYPE 2	600	710.160	2
	800	710.180	2

- Package includes **1 Set=2 pcs. 100mm Height Side Cover.**
- **2 Set(4 Pieces)** needed for 200H Plinth.
- Type 1 consists of a single panel.
- When Type 2 is selected, 400W Panel and 600W Panel are used together.

1.4.2 EXTENDABLE PLINTH/BASE

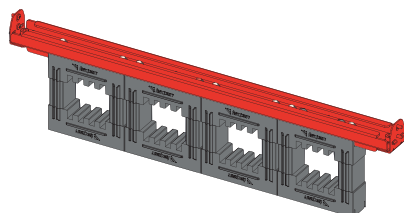
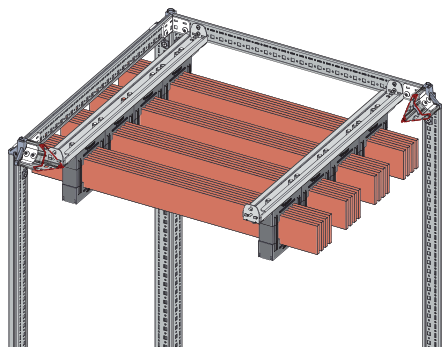


- **Extendable Plinth / Base** should be selected for baying group sections. Check page 6 at A4 Accessories Guide.



2. BUSBAR

2.1 BUSBAR RAIL KIT

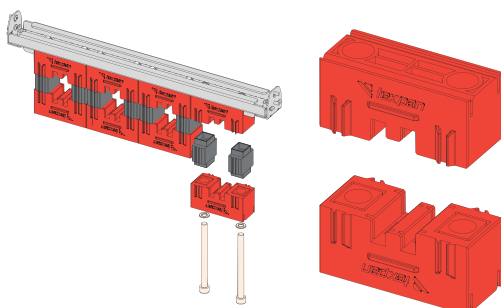


MODULE TYPE	WIDTH(W)	DEPTH(D)	REF. NO.	PACKAGE QTY. (pcs.)	REQUIRED QTY.(pcs.)	I _{cw} (kA)
Type 1	600	600	1010.160	2 pcs.	2	65 kA/85kA
	600	800	1010.180	2 pcs.	2	

- For **Ref. No** quantity = **Required Qty./ Package Qty.**
- If your required quantity is less than package quantity; please select the Reference no with suitable package quantity.
- **Please check** your design/project for I_{cw} value.
- Type 1 consists of a single panel.
- When Type 2 is selected, 400W Panel and 600W Panel are used together.

2.2 BUSBAR HOLDERS

2.2.1 MAIN HOLDER (L1, L2, L3)

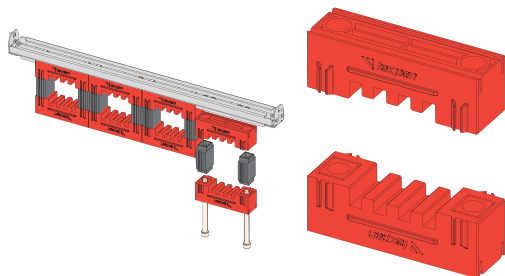


MODULE TYPE	WIDTH(W)	DEPTH(D)	REF. NO.	PACKAGE QTY. (pcs.)	REQUIRED QTY.(pcs.)	I _{cw} (kA)
Type 1	2300	1009.012	6 pcs.	12	2	65 kA/85kA
	1860	1009.012	6 pcs.	12	2	
	1620	1009.012	6 pcs.	12	2	
	1350	1009.012	6 pcs.	12	2	

MODULE TYPE	WIDTH(W)	DEPTH(D)	REF. NO.	PACKAGE QTY. (pcs.)	REQUIRED QTY.(pcs.)	I _{cw} (kA)
Type 2	2300	1009.012	6 pcs.	24	2	65 kA/85kA
	1860	1009.012	6 pcs.	24	2	
	1620	1009.012	6 pcs.	24	2	
	1350	1009.012	6 pcs.	24	2	



■ 2.2.1 MAIN HOLDER (L1, L2, L3)



MODULE TYPE	WIDTH(W)	DEPTH(D)	REF. NO.	PACKAGE QTY. (pcs.)	REQUIRED QTY.(pcs.)	Icw (kA)
Type 1	4000	1009.011	6 pcs.	12	2	65 kA/85kA
	3400	1009.011	6 pcs.	12	2	
	3000	1009.011	6 pcs.	12	2	
	2500	1009.011	6 pcs.	12	2	

MODULE TYPE	WIDTH(W)	DEPTH(D)	REF. NO.	PACKAGE QTY. (pcs.)	REQUIRED QTY.(pcs.)	Icw (kA)
Type 2	4000	1009.011	6 pcs.	24	2	65 kA/85kA
	3400	1009.011	6 pcs.	24	2	
	3000	1009.011	6 pcs.	24	2	
	2500	1009.011	6 pcs.	24	2	

- For **Ref.No quantity** = **Required Qty. / Package Qty.**
- If your required quantity is less than package quantity; please select the Reference no with suitable package quantity.
- **Please check** your design/project for Icw value.
- Type 1 consists of a single panel.
- When Type 2 is selected, 400W Panel and 600W Panel are used together.

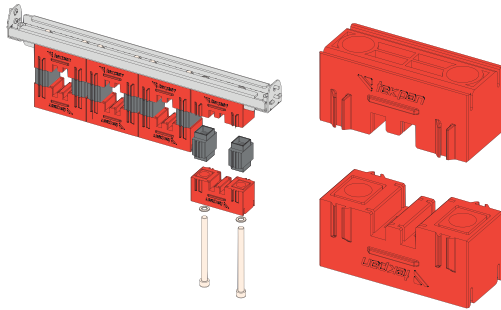
For Multiple Order:

INFO	REF. NO.	PACKAGE QTY. (pcs.)
4 Flat Bar	1009.021	48 pcs.
2 Flat Bar	1009.022	48 pcs.



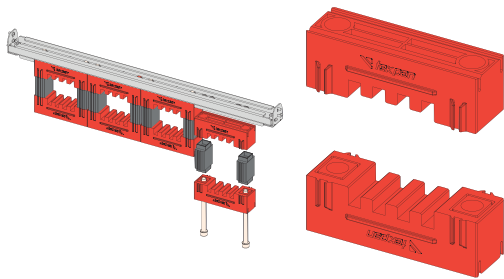
■ 2.2.2 MAIN HOLDERS (NEUTRAL)

■ 2.2.2.1 MAIN HOLDER (NEUTRAL 1/1 SECTION)



MODULE TYPE	WIDTH(W)	DEPTH(D)	REF. NO.	PACKAGE QTY. (pcs.)	REQUIRED QTY.(pcs.)	Icw (kA)
Type 1	2300	1009.002	2 pcs.	4	2	65 kA/85kA
	1860	1009.002	2 pcs.	4	2	
	1620	1009.002	2 pcs.	4	2	
	1350	1009.002	2 pcs.	4	2	

MODULE TYPE	WIDTH(W)	DEPTH(D)	REF. NO.	PACKAGE QTY. (pcs.)	REQUIRED QTY.(pcs.)	Icw (kA)
Type 2	2300	1009.002	2 pcs.	8	2	65 kA/85kA
	1860	1009.002	2 pcs.	8	2	
	1620	1009.002	2 pcs.	8	2	
	1350	1009.002	2 pcs.	8	2	



MODULE TYPE	WIDTH(W)	DEPTH(D)	REF. NO.	PACKAGE QTY. (pcs.)	REQUIRED QTY.(pcs.)	Icw (kA)
Type 1	4000	1009.001	2 pcs.	4	2	65 kA/85kA
	3400	1009.001	2 pcs.	4	2	
	3000	1009.001	2 pcs.	4	2	
	2500	1009.001	2 pcs.	4	2	

MODULE TYPE	WIDTH(W)	DEPTH(D)	REF. NO.	PACKAGE QTY. (pcs.)	REQUIRED QTY.(pcs.)	Icw (kA)
Type 2	4000	1009.001	2 pcs.	8	2	65 kA/85kA
	3400	1009.001	2 pcs.	8	2	
	3000	1009.001	2 pcs.	8	2	
	2500	1009.001	2 pcs.	8	2	

- For **Ref.No quantity** = **Required Qty. / Package Qty.**
- If your required quantity is less than package quantity; please select the Reference no with suitable package quantity.
- **Please check** your design/project for Icw value.
- **TN-S(1/1), TT(1/1)** systems must be used **NEUTRAL (1/1)** section.
- Type 1 consists of a single panel.
- When Type 2 is selected, 400W Panel and 600W Panel are used together.

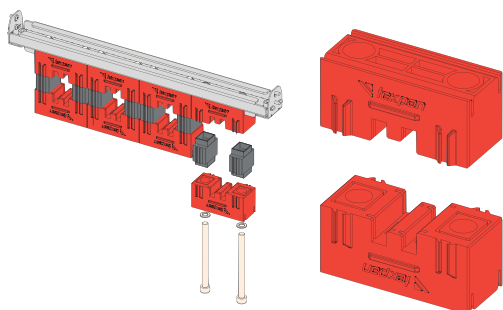
For Multiple Order:

INFO	REF. NO.	PACKAGE QTY. (pcs.)
4 Flat Bar	1009.011	6 pcs.
	1009.021	48 pcs.
2 Flat Bar	1009.012	6 pcs.
	1009.022	48 pcs.



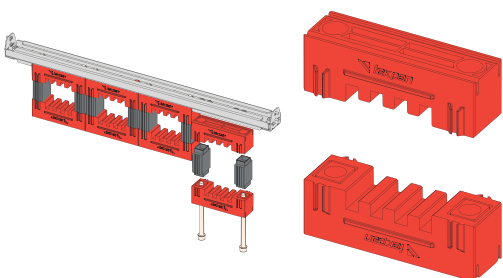
■ 2.2.2 MAIN HOLDERS (NEUTRAL)

■ 2.2.2.2 MAIN HOLDER (NEUTRAL 1/2 SECTION)



MODULE TYPE	WIDTH(W)	DEPTH(D)	REF. NO.	PACKAGE QTY. (pcs.)	REQUIRED QTY.(pcs.)	I _{cw} (kA)
Type 1	2300	1009.002	2 pcs.	4	2	65 kA/85kA
	1860	1009.002	2 pcs.	4	2	
	1620	1009.002	2 pcs.	4	2	
	1350	1009.002	2 pcs.	4	2	

MODULE TYPE	WIDTH(W)	DEPTH(D)	REF. NO.	PACKAGE QTY. (pcs.)	REQUIRED QTY.(pcs.)	I _{cw} (kA)
Type 2	2300	1009.002	2 pcs.	8	2	65 kA/85kA
	1860	1009.002	2 pcs.	8	2	
	1620	1009.002	2 pcs.	8	2	
	1350	1009.002	2 pcs.	8	2	



MODULE TYPE	WIDTH(W)	DEPTH(D)	REF. NO.	PACKAGE QTY. (pcs.)	REQUIRED QTY.(pcs.)	I _{cw} (kA)
Type 1	4000	1009.002	2 pcs.	4	2	65 kA/85kA
	3400	1009.002	2 pcs.	4	2	
	3000	1009.002	2 pcs.	4	2	
	2500	1009.002	2 pcs.	4	2	

MODULE TYPE	WIDTH(W)	DEPTH(D)	REF. NO.	PACKAGE QTY. (pcs.)	REQUIRED QTY.(pcs.)	I _{cw} (kA)
Type 2	4000	1009.002	2 pcs.	8	2	65 kA/85kA
	3400	1009.002	2 pcs.	8	2	
	3000	1009.002	2 pcs.	8	2	
	2500	1009.002	2 pcs.	8	2	

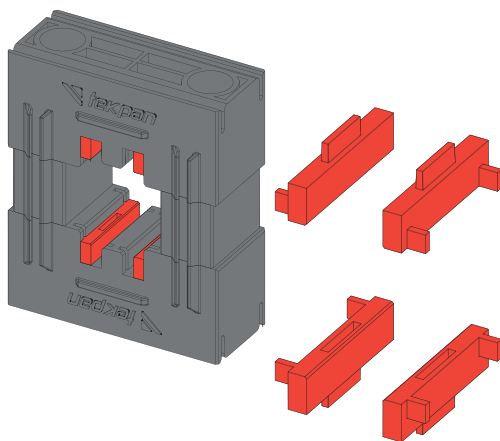
- For **Ref.No quantity** = Required Qty. / Package Qty.
- If your required quantity is less than package quantity; please select the Reference no with suitable package quantity.
- **Please check** your design/project for I_{cw} value.
- **TN-S(1/2), TN-C (PEN)(1/2), TN-C-S(1/2), TT(1/2)** systems must be used **NEUTRAL (1/2)** section.
- Type 1 consists of a single panel.
- When Type 2 is selected, 400W Panel and 600W Panel are used together.

For Multiple Order:

INFO	REF. NO.	PACKAGE QTY. (pcs.)
2 Flat Bar	1009.012	6 pcs.
	1009.022	48 pcs.



2.2.3 MAIN HOLDER ADAPTER (NEUTRAL)



MODULE TYPE	WIDTH(W)	DEPTH(D)	REF. NO.	PACKAGE QTY. (pcs.)	REQUIRED QTY.(pcs.)	Icw (kA)
Type 1	1860	1019.001	4 pcs.	8	2	65 kA/85kA
	1620	1019.001	4 pcs.	8	2	
	1350	1019.001	4 pcs.	8	2	
	1350	1009.002	2 pcs.	4	2	

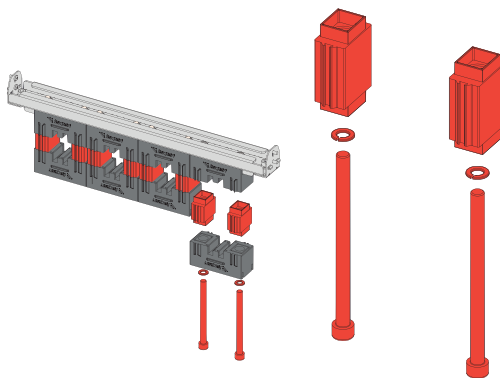
MODULE TYPE	WIDTH(W)	DEPTH(D)	REF. NO.	PACKAGE QTY. (pcs.)	REQUIRED QTY.(pcs.)	Icw (kA)
Type 2	1860	1019.001	4 pcs.	16	2	65 kA/85kA
	1620	1019.001	4 pcs.	16	2	
	1350	1019.001	4 pcs.	16	2	
	1350	1009.002	2 pcs.	8	2	

For Multiple Order:

REF. NO.	PACKAGE QTY. (pcs.)
1019.011	24 pcs.

- For **Ref.No quantity** = **Required Qty. / Package Qty.**
- If your required quantity is less than package quantity; please select the Reference no with suitable package quantity.
- **Please check** your design/project for Icw value.
- **TN-S(1/2), TN-C (PEN)(1/2), TN-C-S(1/2), TT(1/2)** systems must be used **NEUTRAL (1/2)** section.
- Type 1 consists of a single panel.
- When Type 2 is selected, 400W Panel and 600W Panel are used together.

2.2.4 HOLDER HEIGHTS (L1, L2, L3)

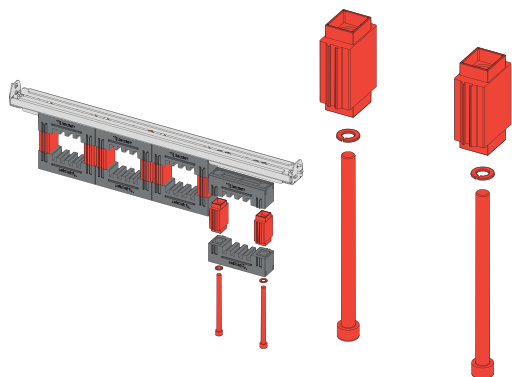


MODULE TYPE	WIDTH(W)	DEPTH(D)	REF. NO.	PACKAGE QTY. (pcs.)	REQUIRED QTY.(pcs.)	Icw (kA)
Type 1	2300	1011.108	6 pcs.	12	2	65 kA/85kA
	1860	1011.106	6 pcs.	12	2	
	1620	1011.105	6 pcs.	12	2	
	1350	1011.104	6 pcs.	12	2	

MODULE TYPE	WIDTH(W)	DEPTH(D)	REF. NO.	PACKAGE QTY. (pcs.)	REQUIRED QTY.(pcs.)	Icw (kA)
Type 2	2300	1011.108	6 pcs.	24	2	65 kA/85kA
	1860	1011.106	6 pcs.	24	2	
	1620	1011.105	6 pcs.	24	2	
	1350	1011.104	6 pcs.	24	2	



■ 2.2.4 HOLDER HEIGHTS (L1, L2, L3)



MODULE TYPE	WIDTH(W)	DEPTH(D)	REF. NO.	PACKAGE QTY. (pcs.)	REQUIRED QTY.(pcs.)	I _{cw} (kA)
Type 1	4000	1011.108	6 pcs.	12	2	65 kA/85kA
	3400	1011.106	6 pcs.	12	2	
	3000	1011.105	6 pcs.	12	2	
	2500	1011.104	6 pcs.	12	2	

MODULE TYPE	WIDTH(W)	DEPTH(D)	REF. NO.	PACKAGE QTY. (pcs.)	REQUIRED QTY.(pcs.)	I _{cw} (kA)
Type 2	4000	1011.108	6 pcs.	24	2	65 kA/85kA
	3400	1011.106	6 pcs.	24	2	
	3000	1011.105	6 pcs.	24	2	
	2500	1011.104	6 pcs.	24	2	

- For **Ref.No quantity** = **Required Qty. / Package Qty.**
- If your required quantity is less than package quantity; please select the Reference no with suitable package quantity.
- **Please check** your design/project for I_{cw} value.
- Type 1 consists of a single panel.
- When Type 2 is selected, 400W Panel and 600W Panel are used together.

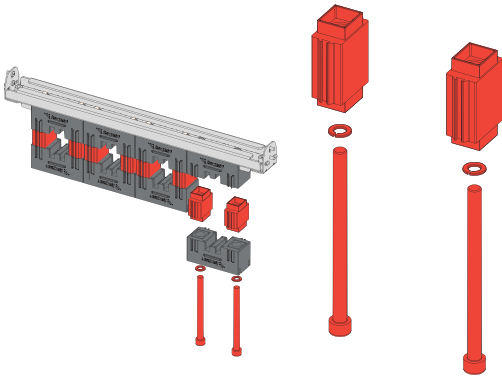
For Multiple Order:

HEIGHT(H)	REF. NO.	PACKAGE QTY. (pcs.)
40H	1011.204	48 pcs.
50H	1011.205	48 pcs.
60H	1011.206	48 pcs.
80H	1011.208	48 pcs.



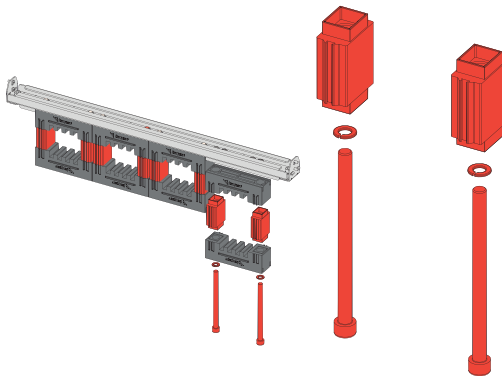
■ 2.2.5 HOLDER HEIGHTS (NEUTRAL)

■ 2.2.5.1 HOLDER HEIGHTS (NEUTRAL 1/1 SECTION)



MODULE TYPE	WIDTH(W)	DEPTH(D)	REF. NO.	PACKAGE QTY. (pcs.)	REQUIRED QTY.(pcs.)	I _{cw} (kA)
Type 1	2300	1011.008	2 pcs.	4	2	65 kA/85kA
	1860	1011.006	2 pcs.	4	2	
	1620	1011.005	2 pcs.	4	2	
	1350	1011.004	2 pcs.	4	2	

MODULE TYPE	WIDTH(W)	DEPTH(D)	REF. NO.	PACKAGE QTY. (pcs.)	REQUIRED QTY.(pcs.)	I _{cw} (kA)
Type 2	2300	1011.008	2 pcs.	8	2	65 kA/85kA
	1860	1011.006	2 pcs.	8	2	
	1620	1011.005	2 pcs.	8	2	
	1350	1011.004	2 pcs.	8	2	



MODULE TYPE	WIDTH(W)	DEPTH(D)	REF. NO.	PACKAGE QTY. (pcs.)	REQUIRED QTY.(pcs.)	I _{cw} (kA)
Type 1	4000	1011.108	6 pcs.	12	2	65 kA/85kA
	3400	1011.106	6 pcs.	12	2	
	3000	1011.105	6 pcs.	12	2	
	2500	1011.104	6 pcs.	12	2	

MODULE TYPE	WIDTH(W)	DEPTH(D)	REF. NO.	PACKAGE QTY. (pcs.)	REQUIRED QTY.(pcs.)	I _{cw} (kA)
Type 2	4000	1011.008	2 pcs.	8	2	65 kA/85kA
	3400	1011.006	2 pcs.	8	2	
	3000	1011.005	2 pcs.	8	2	
	2500	1011.004	2 pcs.	8	2	

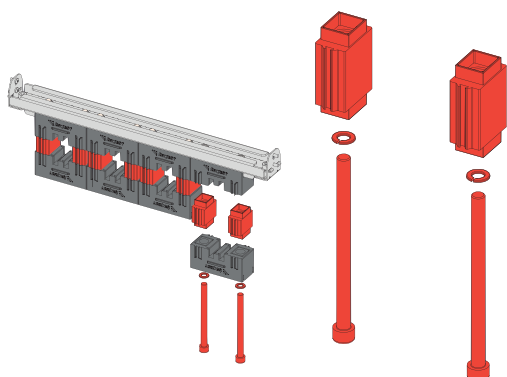
- For **Ref.No quantity** = **Required Qty. / Package Qty.**
- If your required quantity is less than package quantity; please select the Reference no with suitable package quantity.
- **Please check** your design/project for I_{cw} value.
- Type 1 consists of a single panel.
- When Type 2 is selected, 400W Panel and 600W Panel are used together.

For Multiple Order:

HEIGHT(H)	REF. NO.	PACKAGE QTY. (pcs.)
40H	1011.104	6 pcs.
	1011.204	48 pcs.
50H	1011.105	6 pcs.
	1011.205	48 pcs.
60H	1011.106	6 pcs.
	1011.206	48 pcs.
80H	1011.108	6 pcs.
	1011.208	48 pcs.

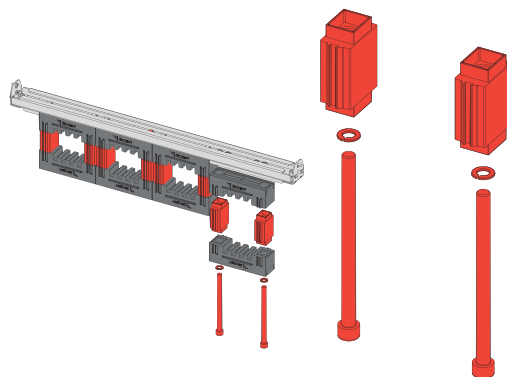


■ 2.2.5.2 HOLDER HEIGHTS (NEUTRAL 1/2 SECTION)



MODULE TYPE	WIDTH(W)	DEPTH(D)	REF. NO.	PACKAGE QTY. (pcs.)	REQUIRED QTY.(pcs.)	I _{cw} (kA)
Type 1	2300	1011.004	2 pcs.	4	2	65 kA/85kA
	1860	1011.006	2 pcs.	4	2	
	1620	1011.005	2 pcs.	4	2	
	1350	1011.004	2 pcs.	4	2	

MODULE TYPE	WIDTH(W)	DEPTH(D)	REF. NO.	PACKAGE QTY. (pcs.)	REQUIRED QTY.(pcs.)	I _{cw} (kA)
Type 2	2300	1011.004	2 pcs.	8	2	65 kA/85kA
	1860	1011.006	2 pcs.	8	2	
	1620	1011.005	2 pcs.	8	2	
	1350	1011.004	2 pcs.	8	2	



MODULE TYPE	WIDTH(W)	DEPTH(D)	REF. NO.	PACKAGE QTY. (pcs.)	REQUIRED QTY.(pcs.)	I _{cw} (kA)
Type 1	4000	1011.008	2 pcs.	4	2	65 kA/85kA
	3400	1011.006	2 pcs.	4	2	
	3000	1011.005	2 pcs.	4	2	
	2500	1011.004	2 pcs.	4	2	

MODULE TYPE	WIDTH(W)	DEPTH(D)	REF. NO.	PACKAGE QTY. (pcs.)	REQUIRED QTY.(pcs.)	I _{cw} (kA)
Type 2	4000	1011.008	2 pcs.	8	2	65 kA/85kA
	3400	1011.006	2 pcs.	8	2	
	3000	1011.005	2 pcs.	8	2	
	2500	1011.004	2 pcs.	8	2	

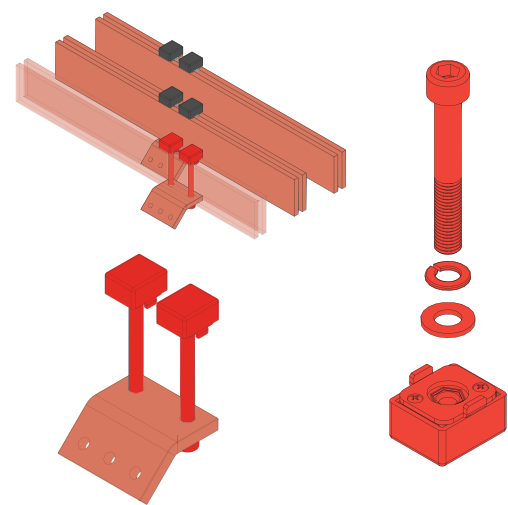
- For **Ref.No quantity** = **Required Qty. / Package Qty.**
- If your required quantity is less than package quantity; please select the Reference no with suitable package quantity.
- **Please check** your design/project for I_{cw} value.
- **TN-S(1/2), TN-C (PEN)(1/2), TN-C-S(1/2), TT(1/2)** systems must be used **NEUTRAL (1/2)** section.
- Type 1 consists of a single panel.
- When Type 2 is selected, 400W Panel and 600W Panel are used together.

For Multiple Order:

HEIGHT(H)	REF. NO.	PACKAGE QTY. (pcs.)
40H	1011.104	6 pcs.
	1011.204	48 pcs.
50H	1011.105	6 pcs.
	1011.205	48 pcs.
60H	1011.106	6 pcs.
	1011.206	48 pcs.
80H	1011.108	6 pcs.
	1011.208	48 pcs.

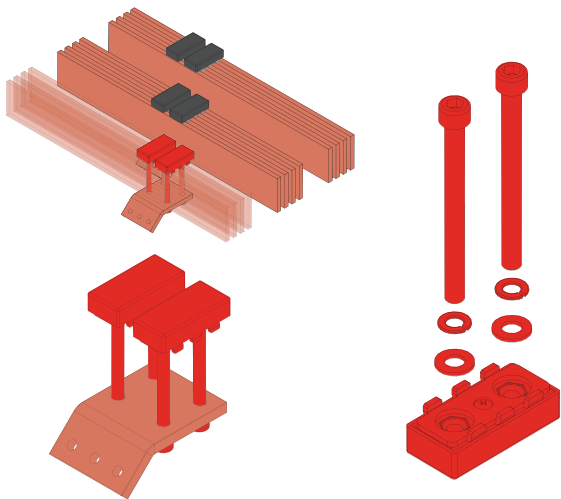


2.3 MAIN BUSBAR CONNECTION KIT



DEPTH(H)	BUSBAR POWER(A)	REF. NO.	PACKAGE QTY. (set.)	REQUIRED QTY.(set.)
600	2300	1035.2090	1 Set	6
	1860	1035.2070	1 Set	6
	1620	1035.2060	1 Set	6
	1350	1035.2050	1 Set	6

● **Package includes for 600 Depth;** 1 pc. Bara Flex-Connect, 1 pc. hexagon head bolt , 1 pc. spring washer, 1 pc. flat washer.



DEPTH(H)	BUSBAR POWER(A)	REF. NO.	PACKAGE QTY. (set.)	REQUIRED QTY.(set.)
800	4000	1035.4090	1 Set	6
	3400	1035.4070	1 Set	6
	3000	1035.4060	1 Set	6
	2500	1035.4050	1 Set	6

● **Package includes for 800 Depth;** 1 pc. Bara Flex-Connect, 2 pc. hexagon head bolt , 2 pc. spring washer, 2 pc. flat washer.

2.4 EARTHING KIT

ORD.PDS.0XXX

ORD.PDS.0XXX

MODULE TYPE	EARTHING POSITION	REF. NO.	PACKAGE QTY. (set.)	REQUIRED QTY.(set.)
Type 1	BOTTOM	1012.001	2 pcs.	2
Type 2	BOTTOM	1012.001	2 pcs.	4

- For **Ref.No quantity** = **Required Qty. / Package Qty.**
- If your required quantity is less than package quantity; please select the Reference no with suitable package quantity.

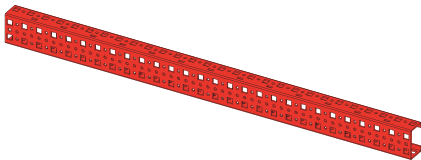
For Multiple Order:

REF. NO.	PACKAGE QTY. (pcs.)
1011.104	6 pcs.



3. PFC FRAMING

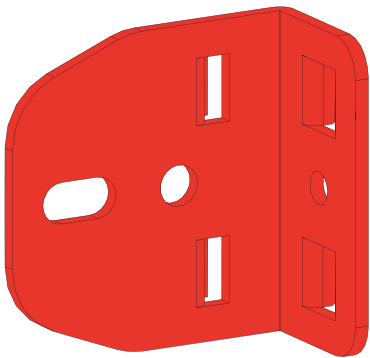
3.1 SCISSILE RAIL



MODULE INFO	BUSBAR	LENGHT(L)	REF. NO.	PACKAGE QTY. (pcs)	REQUIRED QTY. (pcs.)
Type 1-600D	w	600	944.424	2 pcs.	2
Type 1-800D	w	800	944.425	2 pcs.	2
	w	1800	944.429	2 pcs.	2
Type 1-800D	w/o	2000	944.430	4 pcs.	2

MODULE INFO	BUSBAR	LENGHT(L)	REF. NO.	PACKAGE QTY. (pcs)	REQUIRED QTY. (pcs.)
Type 2-600D	w	600	944.424	2 pcs.	4
Type 2-800D	w	800	944.425	2 pcs.	4
	w	1800	944.429	2 pcs.	2
Type 2-800D	w/o	2000	944.430	4 pcs.	2

! Notice: 2000 lenght is selected when the main busbar is not used.
Depth rails are not necessary.



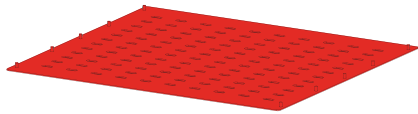
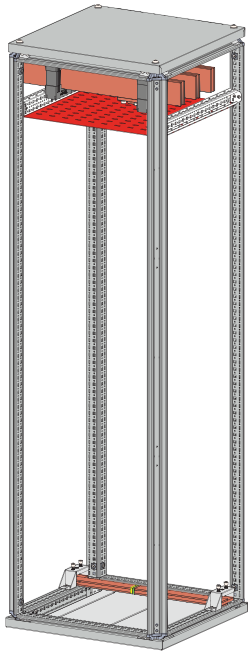
MODULE INFO	BUSBAR	LENGHT(L)	REF. NO.	PACKAGE QTY. (pcs)	REQUIRED QTY. (pcs.)
Type 1-600D	w	944.421	12 pcs.	4	2
Type 1-800D	w	944.421	12 pcs.	8	2
Type 1-800D	w/o	944.421	12 pcs.	4	2

MODULE INFO	BUSBAR	LENGHT(L)	REF. NO.	PACKAGE QTY. (pcs)	REQUIRED QTY. (pcs.)
Type 2-600D	w	944.421	12 pcs.	8	4
Type 2-800D	w	944.421	12 pcs.	12	4
Type 2-800D	w/o	944.421	12 pcs.	4	2

- For **Ref.No quantity = Required Qty. / Package Qty.**
- If your required quantity is less than package quantity; please select the Reference no with suitable package quantity.
- Type 1 consists of a single panel.
- When Type 2 is selected, 400W Panel and 600W Panel are used together.

■ 3.2 SEPARATION

■ 3.2.1 SEPARATION PLATE

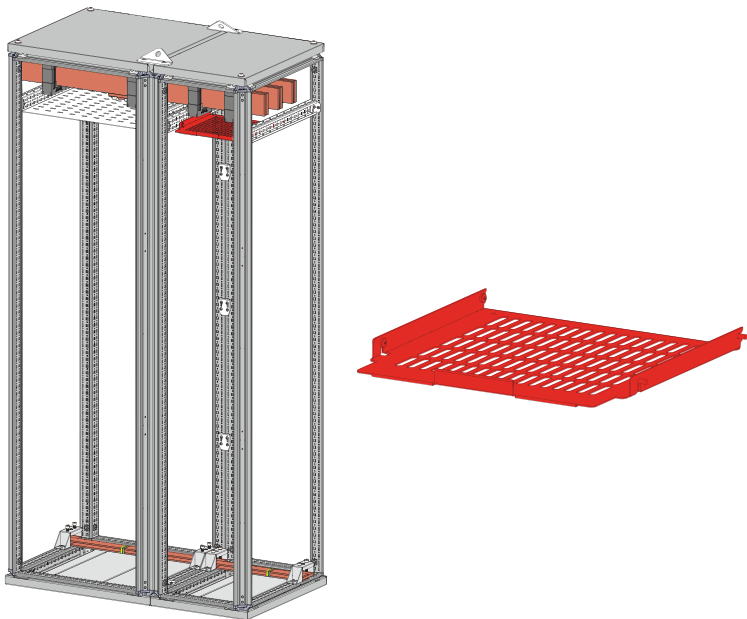


WIDTH(W)	REF. NO.	PACKAGE QTY. (pcs.)	REQUIRED QTY. (pcs.)
600	1070.0004	1 pcs.	1

- Separation Plate is Used for Type 1 and Type 2.
- **These parts are not needed when the main busbar is not used.**



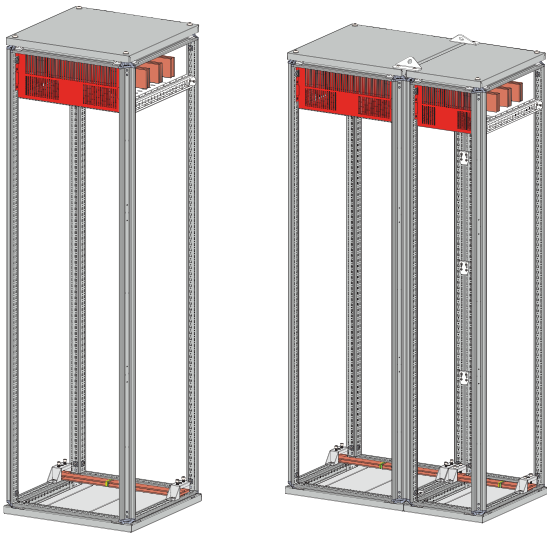
3.2.2 BUSBAR SEPARATION SHELF



WIDTH(W)	REF. NO.	PACKAGE QTY. (pcs.)	REQUIRED QTY. (pcs.)
400	1008.140	1 pcs.	1

- Busbar Separation Shelf is used for 400W Panel when Type 2 is selected.
- **These parts are not needed when the main busbar is not used.**

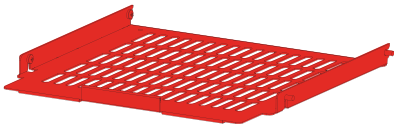
3.2.3 BUSBAR SEPARATION COVER



MODULE TYPE	WIDTH(W)	REF. NO.	PACKAGE QTY. (pcs.)	REQUIRED QTY. (pcs.)
TYPE 1	600	1013.060	1 pcs.	1

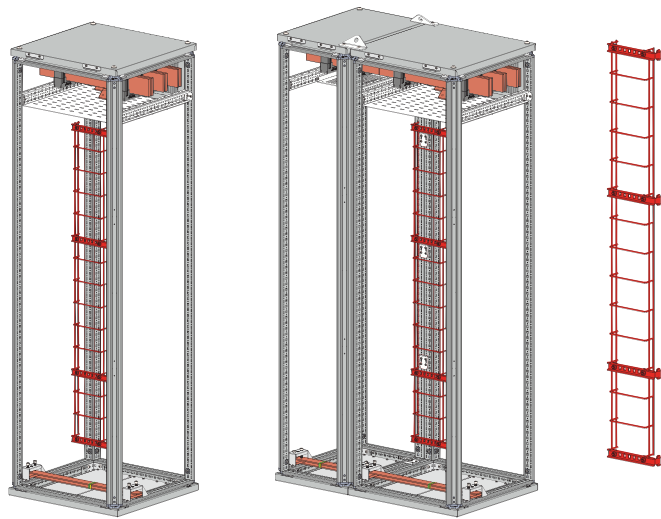
MODULE TYPE	WIDTH(W)	REF. NO.	PACKAGE QTY. (pcs.)	REQUIRED QTY. (pcs.)
TYPE 2	400	1013.040	1 pcs.	1
	600	1013.060	1 pcs.	1

- This part must be selected with all separating options. (Except busbarless systems.)
- Type 1 consists of a single panel.
- When Type 2 is selected, 400W Panel and 600W Panel are used together.
- **These parts are not needed when the main busbar is not used.**





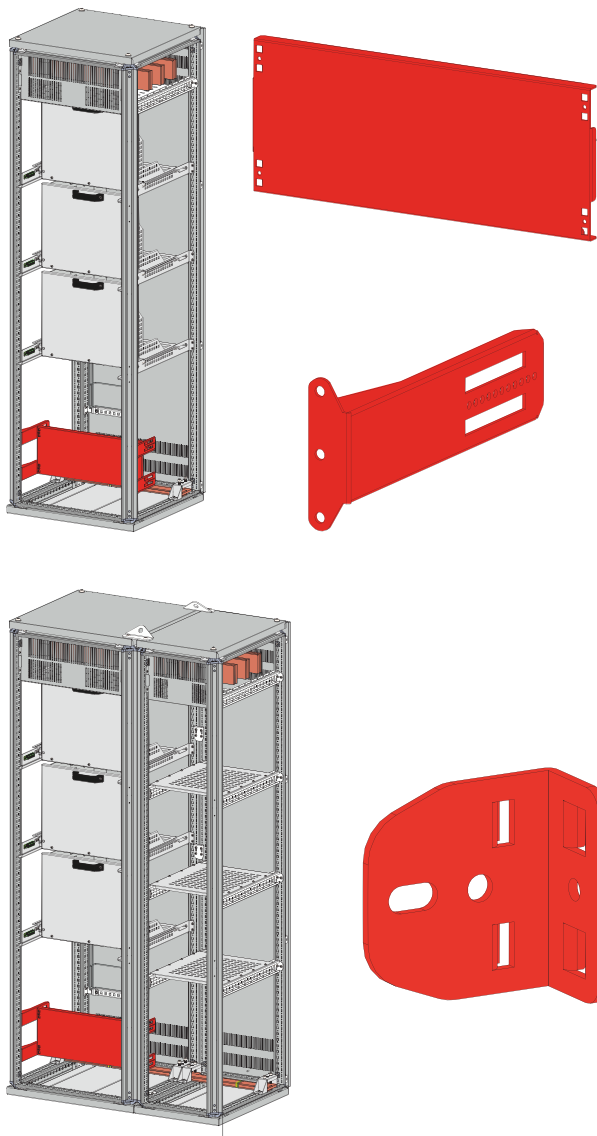
3.2.4 WIREWAY



HEIGHT(mm)	REF. NO.	PACKAGE QTY. (set)	REQUIRED QTY. (pcs.)
1406	1070.0005	1 set	1

- System includes parts which are below.
 - 40x150x1406 Wireway,
 - Wireway Holder,
 - Wireway Fixer,
 - M5x10 Screw,
 - M8x15 round head bolt.
- Type 1 consists of a single panel.
- When Type 2 is selected, 400W Panel and 600W Panel are used together.
- Type 1 and type 2 are also used for cable housing.
- ! Notice: Assemble the parts used for fixing the wireway according to the position of the drawers.

5.2 ACB CABLING SEPARATION COVER



MODULE TYPE	WIDTH(W)	REF. NO.	PACKAGE QTY. (pcs.)	REQUIRED QTY. (pcs.)
600	200	944.453	1 pc.	1
600	250	944.454	1 pc.	1
600	300	944.455	1 pc.	1

KIT BRACKET		
REF. NO.	PACKAGE QTY. (pcs.)	REQUIRED QTY. (pcs.)
944.436	2 pcs.	4

PLUG IN RAIL BRACKET		
REF. NO.	PACKAGE QTY. (pcs.)	REQUIRED QTY. (pcs.)
944.420	100 pcs.	4
944.421	12 pcs.	4

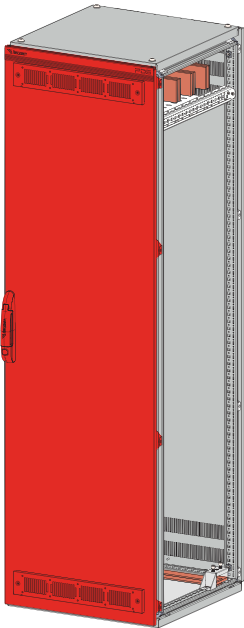
- If a 600G panel is used, a mounting plate must also be used.
- ! Notice: 4 pcs. plug in rail brackets are required for the mounting plate.



4. FRONT-REAR PANELS

4.1 FRONT DOORS

4.1.1 SOLID FRONT DOOR

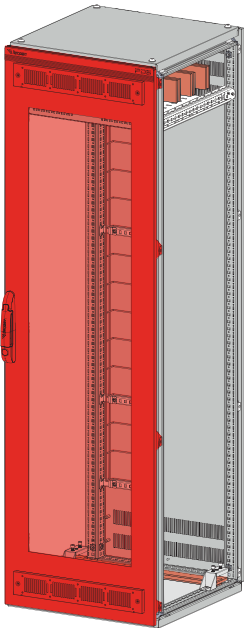


MODULE TYPE	WIDTH(W)	DOOR TYPE	REF. NO.	PACKAGE QTY. (pcs.)	REQUIRED QTY. (pcs.)
TYPE 1	600	SOLID	1002.620	1 pcs.	1

MODULE TYPE	WIDTH(W)	DOOR TYPE	REF. NO.	PACKAGE QTY. (pcs.)	REQUIRED QTY. (pcs.)
TYPE 2	400	SOLID	1002.420	1 pcs.	1
	600	SOLID	1002.620	1 pcs.	1

- Only solid doors are used in 400W Panels.
- Type 1 consists of a single panel.
- When Type 2 is selected, 400W Panel and 600W Panel are used together.

4.1.2 GLAZED FRONT DOOR



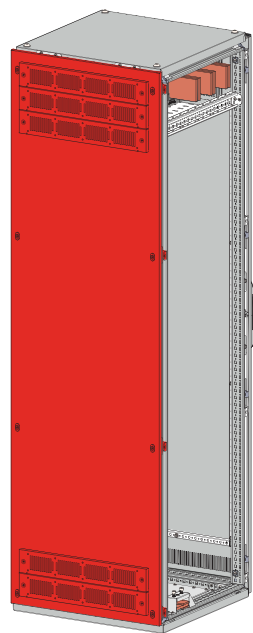
MODULE TYPE	WIDTH(W)	DOOR TYPE	REF. NO.	PACKAGE QTY. (pcs.)	REQUIRED QTY. (pcs.)
TYPE 1	600	GLAZED	1002.621	1 pcs.	1

MODULE TYPE	WIDTH(W)	DOOR TYPE	REF. NO.	PACKAGE QTY. (pcs.)	REQUIRED QTY. (pcs.)
TYPE 2	400	SOLID	1002.420	1 pcs.	1
	600	GLAZED	1002.621	1 pcs.	1

- Only solid doors are used in 400W Panels.
- Type 1 consists of a single panel.
- When Type 2 is selected, 400W Panel and 600W Panel are used together.



4.2 REAR PANEL

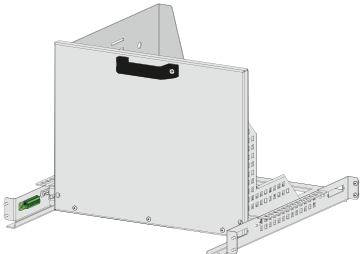
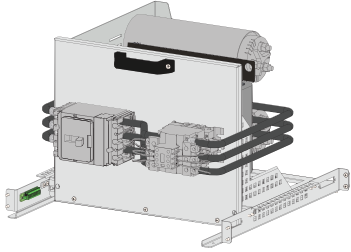


MODULE TYPE	WIDTH(W)	DOOR TYPE	REF. NO.	PACKAGE QTY. (pcs.)	REQUIRED QTY. (pcs.)
TYPE 1	600	2000	1003.620	1	1

MODULE TYPE	WIDTH(W)	DOOR TYPE	REF. NO.	PACKAGE QTY. (pcs.)	REQUIRED QTY. (pcs.)
TYPE 2	400	2000	1003.420	1	1
	600	2000	1003.620	1	1

- Package includes **1 pcs. Ventilated Rear Panel, Assembly Parts.**
- Type 1 consists of a single panel.
- When Type 2 is selected, 400W Panel and 600W Panel are used together.

SELECTION CHARACTERISTICS



Module Name

PFC DRW

NF

2S

100

375

INT

02

PFC DRW NF2S100375INT02

NO 1: Detuned Filter

NO 2: Step

NO 3: Drawer Power (Max.)

NO 4: Drawer Height

NO 5: Front Protection

NO 6: Power

NO 1		NO 2		NO 2		NO 4		NO 5		NO 6	
Selection Code	Detuned Filter	Selection Code	Steps	Selection Code	Power (Max.)	Selection Code	Drawer Height (H)	Selection Code	Front Protection	Selection Code	Segregation Type
F	Filter	1S**	1	50***	50 Kvar	225	225	INT	Internal	01	Form 1
NF	No Filter	2S**	2	100***	100 Kvar	375	375			02	Form 2a

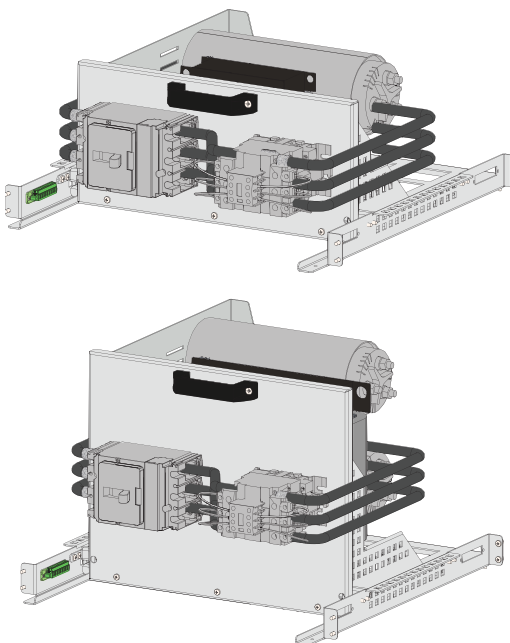
- For 225H;

 - Up to 2 capacitors can be installed in the 225H Drawer.
 - It is recommended to install Switches, Nh fuses and Contactors horizontally for wiring.
 - 225H Drawer supports up to 1 step.
 - The power values in the table above indicate the maximum power of the drawer when the detuned filter is not used. So 225H drawer can have a maximum power of 50 Kvar without detuned filter. This power will decrease when a detuned filter is used.

!Notice: PFC Drawers are only available for 600 width. Used in 600 and 800 depth.
- For 375H;

 - Up to 4 capacitors can be installed in the 375H Drawer.
 - It is recommended to install Switches, Nh fuses and Contactors horizontally for wiring.
 - 375H Drawer supports up to 2 steps.
 - The power values in the table above indicate the maximum power of the drawer when the detuned filter is not used. So 375H drawer can have a maximum power of 100 Kvar without detuned filter. This power will decrease when a detuned filter is used.

NO 1: MAIN BUSBAR



Drawer Dimension Info				
Drawer Height	Capacitor	Detuned Filter (Max.)	Mounting Plate (WxH)	Type
225H	Ø75-Ø136 L: 390 mm (Max.)	W:368,5 H:190(+17mm) D:173	450mmx200mm	1 or 2
325H	Ø75-Ø136 L: 390 mm (Max.)	W:368,5 H:340(+17mm) D:173	450mmx350mm	1 or 2

- General PFC system provide Form 2 forming as standart safety feature.
- Only 600mm width option.
- 200mm(225H) and 350mm(375H) Loading Heigth Solutions. (For Mounting Plate)
- PFC Drawer come with standart Form-2 solution. The selection Form type of cassette must be the same as Module Form Type.
- The maximum height(H) specified for placing the harmonic filter is included in the space between the two drawers. (+17 mm)

■ TECHNICAL INFORMATION

Using capacitors at different voltages in 400V network

!Notice: PFC Drawers are only available for 600 width. Used in 600 and 800 depth.

- Network Power = 400V and Capacitor Power = 525V;
- $400/525 \approx 0,761$ $(0,761)^2 \approx 0,58$ capacity will be reduced $1/0,58 \approx 1,724$

■ SELECTION CHARACTERISTICS



PDS
UPGRADE THE POWER