

天铂致力于在最关键的时刻提供绝对可靠、有效、安全的电力产品。天铂专家拥有顶级的跨行业电力管理知识，能够提供定制化的整合解决方案，以解决客户面临的最重大挑战。

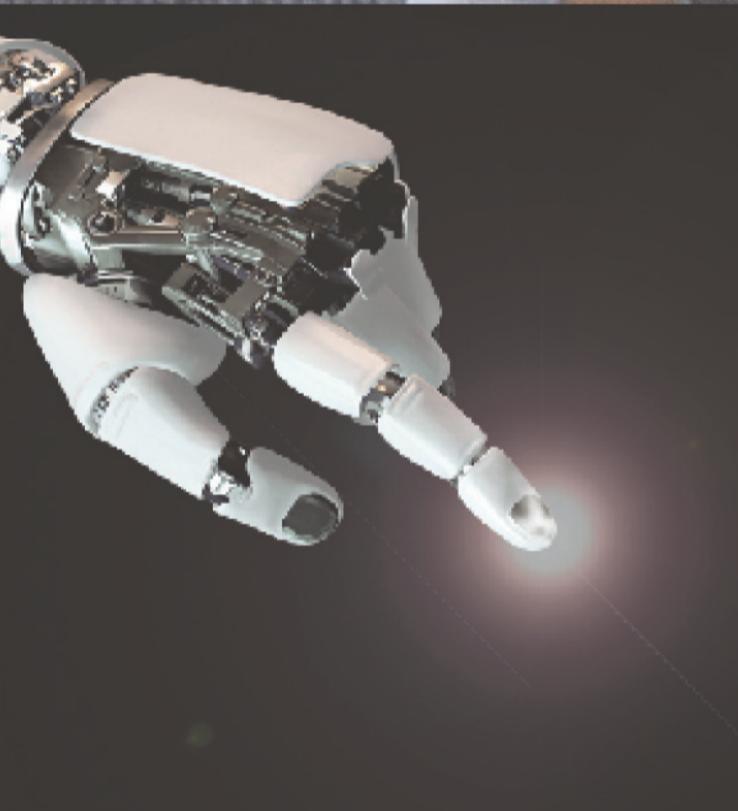
我们立足于根据具体应用提供相应的解决方案。但决策者们要求的不仅仅是创新型的产品，他们需要天铂提供稳固的贴心支持承诺，以“客户成功”为第一要务。更多内容，请访问网站www.tbdlcz.com.

Temper is committed to providing absolutely reliable, effective and safe electric energy at the most crucial moment. With top-class cross-industry electric management knowledge, Temper experts can provide customized integrated solutions to resolve the greatest challenges faced by customers.

We provide appropriate solution based on specific application. However, decision makers not only require innovative products, but also need Temper to provide secure and considerate support commitments and to regard "Customer Success" as top priority. Please visit our website www.tbdlcz.com for more information.

TEMPER

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TEMPER

Intelligent Low-voltage Withdrawable Switchgear
智能型低压抽出式开关柜

T-Power

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TEMPER

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关于我们

我们有自己的研发、生产及销售团队，为客户提供电气设备和电气材料方面的分析、测量、保护、控制解决方案。

我们的服务是专一、一对一的服务

我们是从事电气设备生产与销售厂家。在这个领域里，我们已经有了30多年的历史，我们的产品也已经销售到国际市场中。我们企业的理念是：充满自信、优质服务、创新进取、灵活开发。

我们致力于提供与能源、工业、基础设施相关的产品。

我们的市场运作是国际化的，因为我们的灵活与高效，所以我们可以根据客户个性化的要求，提供给他们一个具体的解决方案。

企业发展方向

我们灵活多变的能力使得我们可以发现当前以及将来市场的需求，给我们的客户一个最佳的解决方案。

天铂公司认为最重要的是明确企业发展方向，而不是确定企业的发展目标。

因为明确了企业发展方向可以使得我们能不断地持续改进，使得我们能着眼于未来，不断进步。

企业理念

我们有5个基本理念

充满自信 每个人必须要有足够多的自信心

完成目标 以事情的结果为导向

优质服务 向客户提供优质的服务

创新进取 我们要有不断进取的精神

灵活开放 我们一直以灵活、开放的心态接受变化

质量要求

我们的第一质量标准是争取的客户最大的满意。

我们的产品必须要符合所有的标准、法律、技术要求，我们的质量控制系统包括了从设计、生产以及到销售的所有环节的控制。

Introduction

We have our own R&D, production, and sales teams to provide our customers with solutions in the analysis, measurement, protection, and control of electrical components.

We are engaged in the production and sales of electrical components. We have more than 30 years of history in this area. Our products have been sold to the international market. Our business philosophy: Confidence, Quality, Innovation, and Flexibility.

Products to improve energy efficiency, and
Products related to energy, industry and infrastructure

Our market is international. We are flexible and efficient. That's why we can provide our customers with specific solutions according to their customized demands.

The development of our company

Because of our flexibility, we can sense the current and future demands of the market and offer the best solutions to our customers.
Temper considers the direction, rather than the goals, of development the most important for a company. As we are clear about its direction, we can focus on the future and improve continuously.

Corporate philosophy

We have five basic concepts.

Confidence. We must be confident enough.

Achievement. We are result-oriented.

Quality. We offer quality service to our customers.

Improvement. We have the spirit of continuous improvement.

Flexibility. We are flexible, and open to changes.

Our requirements on product quality

Our most important quality rule is to satisfy our customers mostly.

Our products must comply with all legal, standard, and technical requirements. Each link in the supply chain from design to production to sales must be involved in the quality control system.

Our Team 我们的团队

We have a professional, dedicated, motivated team, which allows us to innovate all the time, to provide customers with quality service, and to fulfill the corporate philosophy.

我们有一个专业、敬业、上进的团队，这使得我们可以不断创新、为客户提供优质的服务、实现我们公司的理念。

We give our team members advanced training to help them work positively. In this way, we can face the changing market with the peace of mind and provide first-class service to our customers.

我们团队的人员工作积极，接受过高级培训，这样，我们可以从容地面对不断变化的市场，向客户提供高水平的服务。

Please come to us and visit our team. We adjust our direction for you.
请来我们公司，视察我们的团队，我们因您的需求不断地调整我们的工作方向。



Temper in China 我们在中国

We came to China in 2006, and set up the headquarter in Pudong, Shanghai and the manufacturing site in Changzhou, Jiangsu.

We introduced to the market a full set of intelligent vacuum circuit breakers, environmentally friendly network cabinets and other low-voltage products. All products have passed China's test and certification. We have sales offices in Shanghai, Beijing, Tianjin, Chongqing, Hangzhou, Hefei and Nanchang, and have offices in Hong Kong and Singapore to take care of the sales and customer service in the local markets.

2006年我们来到中国，在上海浦东成立亚太区总部，在江苏常州建有大型生产基地；

全套引进智能型真空断路器和环保型环网柜方案和其他低压产品。产品全部通过中国的试验和认证。

我们在上海、北京、天津、重庆、杭州、合肥和南昌设有销售办事机构，同时在香港和新加坡设有办事机构，负责当地市场销售和客户服务。

Introduction 简介

T-Power is the latest product designed by Boer Power which provides a high level of technology and can be used in different applications, such as power generation and distribution. This product has two kinds of cabinet, i.e. high standard type and standard type.

天铂结合20多年来的配电设备生产经验结合国外先进技术研发出最新一代T-Power低压开关柜，适用于所有发电、配电和电力使用场合。该产品有高配型和标准型两款柜体。

■ A system for all your applications requiring a high level of dependability

Electrical distribution power centre (PC) and motor control centre (MCC)

■ 满足高可靠性要求的低压成套设备

动力配电(PC)与电动机控制中心(MCC)

■ A modular structure

For low-voltage switchboards, designed to meet local standards, practices and requirements.

■ 模块化结构

满足当地标准、惯例和要求的开关柜。

■ An intelligent system

Ready to integrate devices containing advanced protection and communication functions for electrical distribution and motor control.

■ 智能化设备

可将包含高级保护和通信功能的元件集成到设备中，用于配电和马达保护

■ A modular system

- standardised components
- fast manufacturing
- easy modifications

■ 模块化系统

标准化的元件
快速制造
易于修改

■ Functional design

- rationalised dimensions and layout inside the switchboard
- reduced footprint
- easy power and auxiliary connections
- easy installation upgrading at a controlled cost

■ 功能性设计

合理化的尺寸和内部布置
减少占地面积
简便的主电路和辅助电路连接
易于安装，升级成本得到控制

Normal service conditions

■ Ambient temperature

+40°C-5°C, average +35°C
Any working environment is higher than above-mentioned, capacitance depression should run.

工作和环境条件

■ 环境温度：

短时最高温度：+40°C
24小时最高平均温度：+35°C 最低温度：-5°C
设备在高于上述环境温度中使用应降容运行

■ Environment conditions

Indoor installation should be in accordance with corresponding Standards and requirements.
To avoid the possibility of condensation, heater and ventilation should operate.
If the altitude is higher than 2000m, capacitance depression should run.

■ 环境条件：

开关柜户内安装地点的条件应符合相应标准的要求。
在会产生凝露的场合，开关柜中应采用通风或加热等措施。
如果开关柜安装在高于海拔2000米以上时，设备要相应的降容运行。

Description and characteristics 说明和特性

Basic frame

■ Description

The basic frame of a T-Power switchboard column is an assembly of prefabricated elements. These elements are available in a number of sizes and may be assembled to form columns with different volumes.

Each column is made up of four distinct zones for:

- ① busbars
- ② components
- ③ cable entry
- ④ auxiliaries

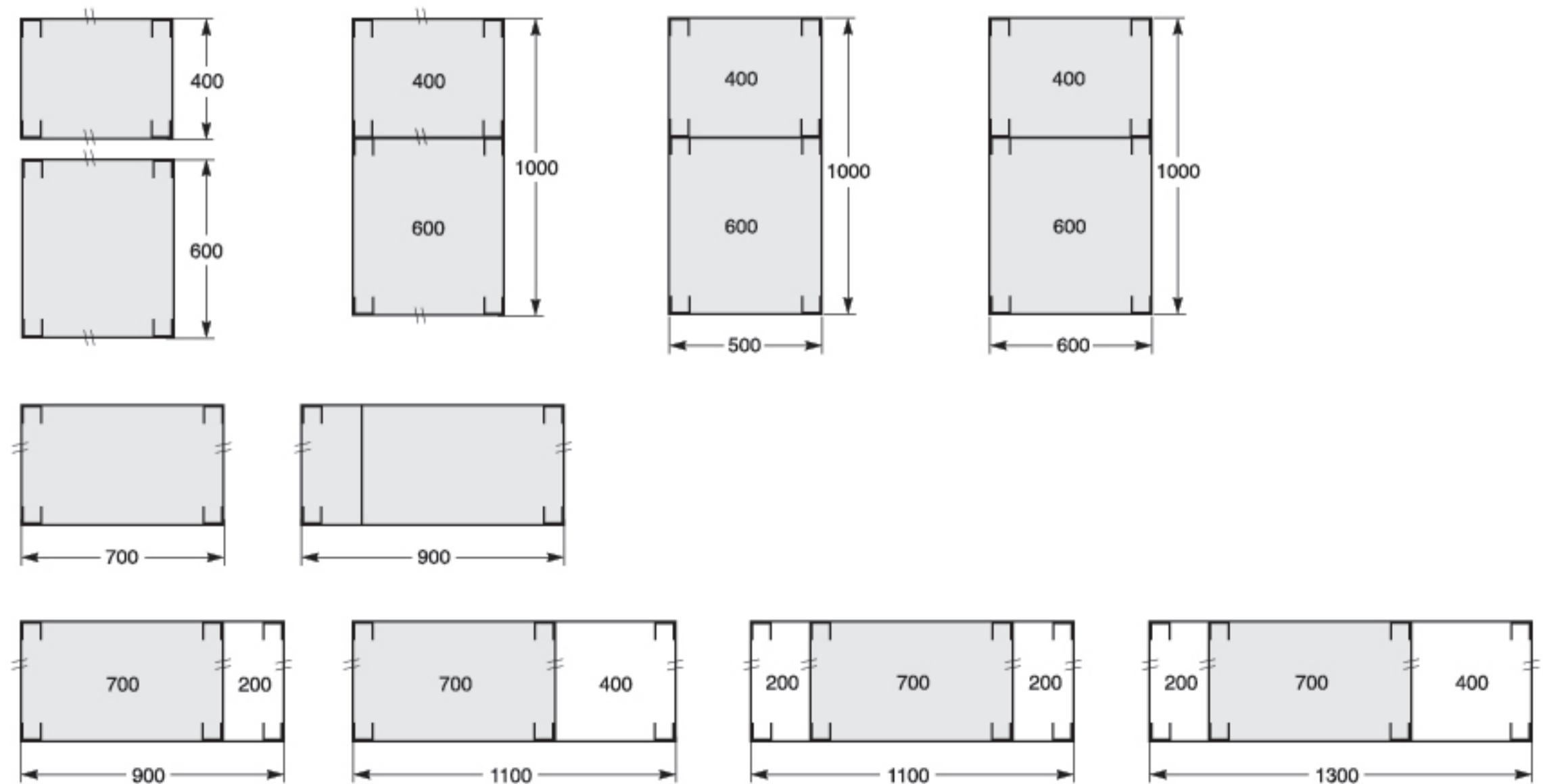


The T-Power range may be used to build switchboards of various depths and widths by combining basic frames and extensions.

Basic frames are available in 3 depths:

- 400mm • 600mm • 1000mm
- Formed by combining two frames, one 400mm and the other 600mm deep Basic frames are available in 6 widths
- 500mm • 600mm (W type)
- 700mm • 900mm

The width of a 700mm column may be increased by adding one or two extensions (200mm or 400mm).



基本框架

■ 说明

T-Power开关柜的基本框架由标准预制构件组装而成。这些构件有多种规格，可以组装成不同尺寸的框架。

开关柜由四个各不相同的隔室组成，分别是：

- ① 母线室
- ② 元件室
- ③ 出线电缆室
- ④ 辅件室

T-Power系列开关柜通过基本框架和扩展框架的组合，可以构成多种深度和宽度的开关柜。

基本框架可有3种深度

- 400mm ● 600mm ● 1000mm
- 由一个400mm和一个600mm深的基本框架组成
- 500mm ● 600mm (W型)
- 700mm ● 900mm

根据需要，可在700mm宽的基本框架两侧增加扩展柜(200或400mm)。

Description and characteristics 说明和特性

Internal equipment

The switchgear components contained in the columns are installed on mounting plates. The combination of a mounting plate with switchgear components is called a functional unit. Functional units are defined by standard IEC 60439-1 as a part of a low-voltage switchgear and controlgear assembly comprising all the electrical and mechanical elements that contribute to the fulfilment of the same function. The height of a functional unit is defined by the number of 50 mm modules it occupies. A column may contain 40 modules, each 50 mm high. Selection and layout of the electrical switchgear components are subject to a rigorous method designed to enable switchboard definition without risk of error.

■ T-Power type D

- mounting of circuit breakers

Circuit breakers are mounted on horizontal plates and are available in two versions:

- fixed
- withdrawable

• mounting of other switchgear components

Circuit breakers, contactors, thermal relays, variable-speed drives and starters are installed on vertical mounting plates.

The circuit breakers for vertical mounting plates are available in three versions:

- fixed
- plug-in
- withdrawable
- all circuit breakers may be installed with their controls
- behind the door
- on the door



T-Power D型

内部设备

在开关柜中，开关元件装在安装板上。安装板和开关元件的组合称为功能单元。

在 IEC 60439-1 标准中将功能单元定义为由同一功能的所有电气设备和机械部件组成的低压开关装置和控制装置的一部分。功能单元的高度由它所占据的 50mm 模数的数量来确定。

一个开关柜包含 40 个模数，每个模数高 50mm。电气开关元件的选择和布置遵循一套严密的方法，该方法可以保证设计开关柜时避免发生错误。

■ T-Power D 型

- 断路器的安装

断路器安装在水平板上，可有两种型式：

- 固定式
- 抽出式

• 其他开关元件的安装

断路器、接触器、热继电器，变频器和软起动器安装在垂直安装板上。

垂直安装的断路器可有 3 种型式：

- 固定式
- 插入式
- 抽出式
- 所有断路器均可以与其控制器一起安装
- 在门后
- 在门上



T-Power D型

■ Columns for power factor correction type C

The equipment for automatic compensation of reactive energy is installed in columns 700mm wide, containing:

- a fixed set of busbars
- functional mounting plates equipped with capacitors and contactors for capacitor control
- Reactive energy regulator

The above equipment may be integrated in a distribution switchboard or remain separate.



T-Power C - front
T-Power C 型- 柜前

■ C型功率因数补偿柜

功率因数补偿设备安装在 700mm 宽的开关柜中，它包括：

- 一组母线
- 配有电容器和用于控制电容器的接触器功能型安装板
- 一个功率因数控制器

上述元件可以安装在同一开关柜中或分柜安装。



T-Power Intelligent Low-voltage Withdrawable Switchgear (High Standard Type) T-Power 智能型低压抽出式开关柜（高配型）

■ T-Power type W

Switchgear components making up the switchboard are installed in drawers to ensure rapid and dependable maintenance and servicing. The column consists of 40 modules of 50mm, there is 5 modules for the busbar room with a single horizontal busbars, and there is 8 modules for the busbar room with a double horizontal busbar. Components installed in drawers that are 4/2,3,4,6,9,12 modules high. Motor feeders in withdrawable drawers may not exceed 250 kW.



■ Parts of a withdrawable unit

- a withdrawable functional unit is made up of
 - a moving part (chassis) that supports the equipment
 - a fixed part bearing the positioning elements for the moving part
 - disconnecting contacts for power connections, which clip onto the busbars
 - disconnecting contacts for auxiliary connections
- Functional units comply with standard IEC 60439-1 and with WWW-type withdrawability specifications.



■ T-Power W 型

将所需的开关元件安装在开关柜一个抽屉中，可以保证快速可靠的维护和维修。
有效安装高度为40个模数，单层水平母线时需占用5M，双层水平母线时占用8M。
抽屉基本模数为4M/2,3M,4M,6M,9M,12M。安装在抽屉中的电动机容量不超过250kW。



■ 可抽出式单元的组成

- 一个可抽出式功能单元由下列部分组成
- 一个支撑设备的移动部分（抽屉）
 - 一个支撑移动部分起定位作用的固定机构
 - 主电路连接触头，与母线夹接
 - 辅助电路连接触头
- 功能单元符合 IEC 60439-1 标准及 WWW 型可抽出型技术规范。

T-Power Intelligent Low-voltage Withdrawable Switchgear (High Standard Type) T-Power 智能型低压抽出式开关柜（高配型）

Busbars

■ Busbars

Busbars are used to carry electrical power throughout the switchboard.

Each switchboard comprises two types of busbars

- the main busbars
- the distribution busbars

The value of the rated current for the main busbars determines the depth of the switchboard columns, as indicated in the table hereunder. They are connected to the switchboard frame via insulated supports that have been tested for their temperature-withstand capacity and non-propagation of flame characteristics.

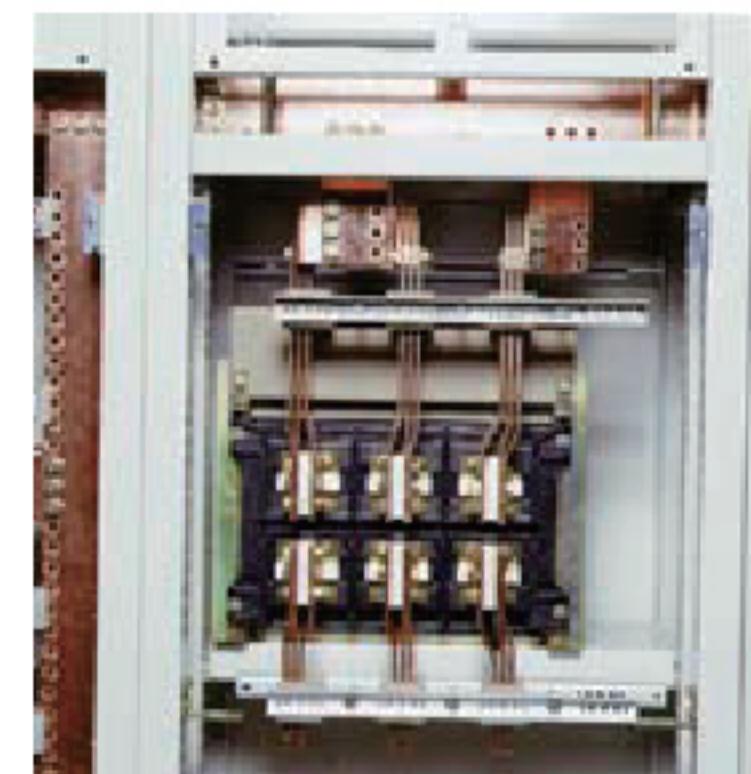
母线

母线用于将电能传送到整组开关柜。

每台开关柜包含两类母线

- 主母线
- 配电母线

如下表所示，主母线的额定电流值决定开关柜的深度。它们通过绝缘支撑件固定在开关柜框架上，绝缘支撑件的温度耐受能力和阻燃特性已通过测试。



T-Power type D, busbars
T-Power D 型，母线



3200A busbars
3200A 母线

Single busbars
单母线

Double busbars
双母线



■ T-Power type D

Main busbars, up to 6300A

The main busbars distribute the electrical current in the switchboard. They are made up of one or several copper bars for each phase, each bar 5mm thick. The main busbars may be positioned at the top, the middle or the bottom of the column.

■ T-Power D 型

主母线，6300A 以下

主母线用于电能在柜内的传输。每一相由单根或多根铜排组成，每根铜排为5mm 厚。主母线可以置于开关柜的顶部、中部或底部。

T-Power Intelligent Low-voltage Withdrawable Switchgear (High Standard Type) T-Power 智能型低压抽出式开关柜（高配型）

■ Distribution busbars

The distribution busbars carry the electrical current to the various functional units. Distribution busbars are available in three versions:

1-2

- Busbars in side compartments, up to 3200A

The busbars are made up of one or several copper bars for each phase and are located in the side compartment of the column. Each bar is 5 mm thick and is drilled for connection to the various switchgear components.

The distribution busbars are connected to the main busbars.

3

- standard busbars at rear of columns, up to 1600A

Busbars installed at the rear of columns are made up of one or more copper bars for each phase. Each bar is 5 mm thick and is drilled for connection to the various switchgear components.

The distribution busbars are connected to the main busbars using nuts, bolts and contact washers.

■ 配电母线

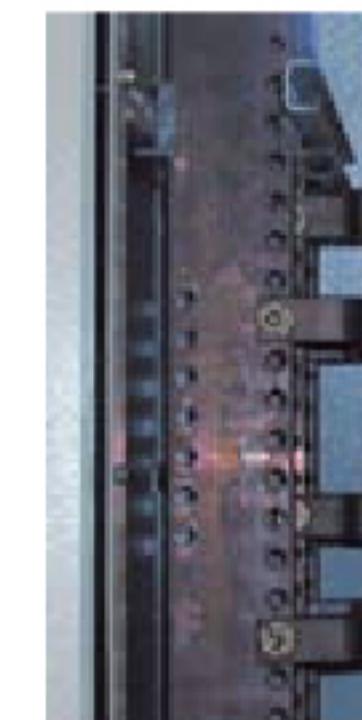
配电母线用于向各功能单元传输电能。配电母线有3种型式：

1-2

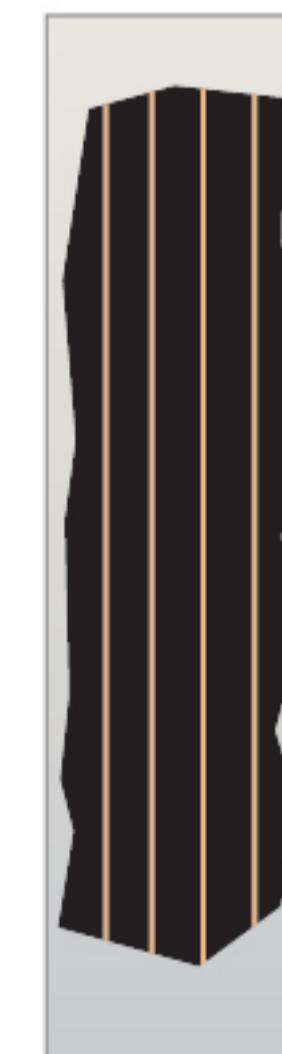
- 柜内母线置于侧面，3200A 以下

母线每一相由单根或多根铜排组成，位于开关柜的侧面。每根铜排为 5mm厚，上面钻孔用于与多种开关元件的连接。

配电母线与主母线相连接。



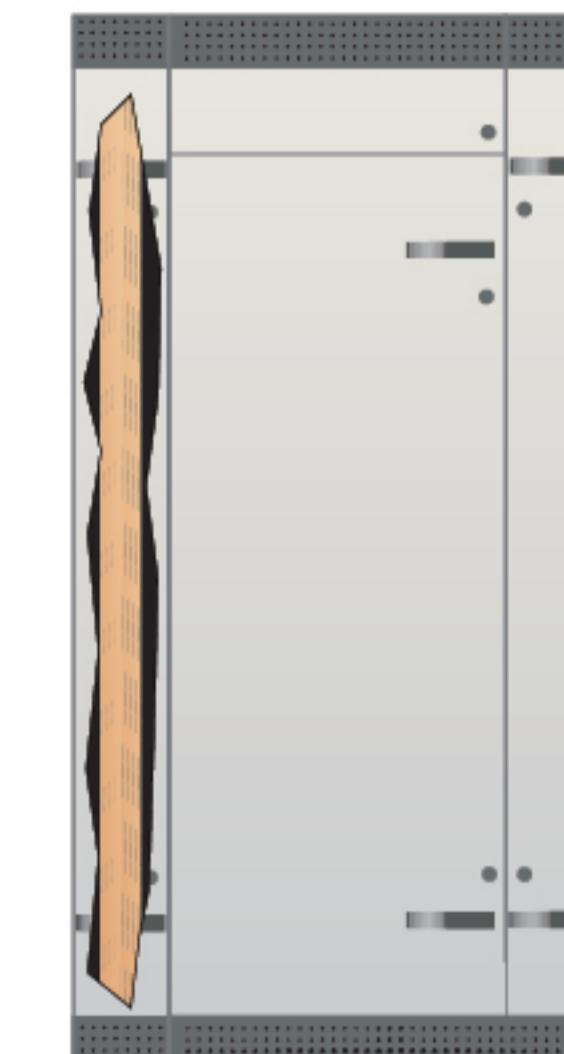
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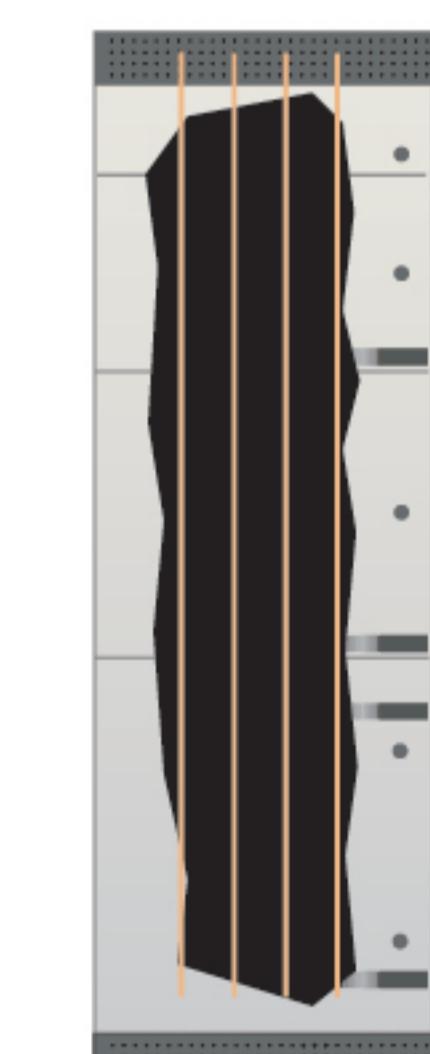
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3



2



3

T-Power Intelligent Low-voltage Withdrawable Switchgear (High Standard Type) T-Power 智能型低压抽出式开关柜（高配型）

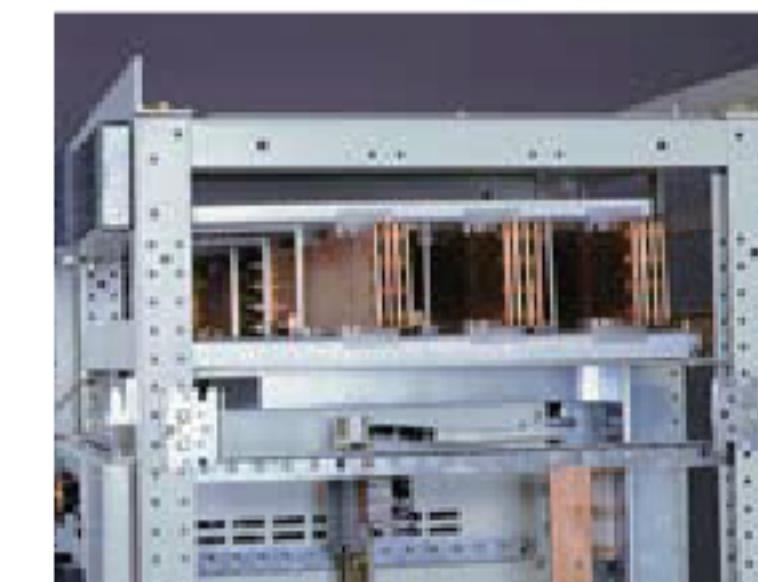
■ T-Power type W

Main busbars, up to 6300A

The main busbars distribute the electrical current in the switchboard. They are made up of one or several copper bars for each phase, each bar 5mm thick.

Distribution busbars, up to 1000/1200/1700/2100A

The distribution busbars carry the electrical current to the withdrawable units in the drawers. The distribution busbars are connected to the main busbars using nuts,bolts and contact washers.



■ T-Power W型

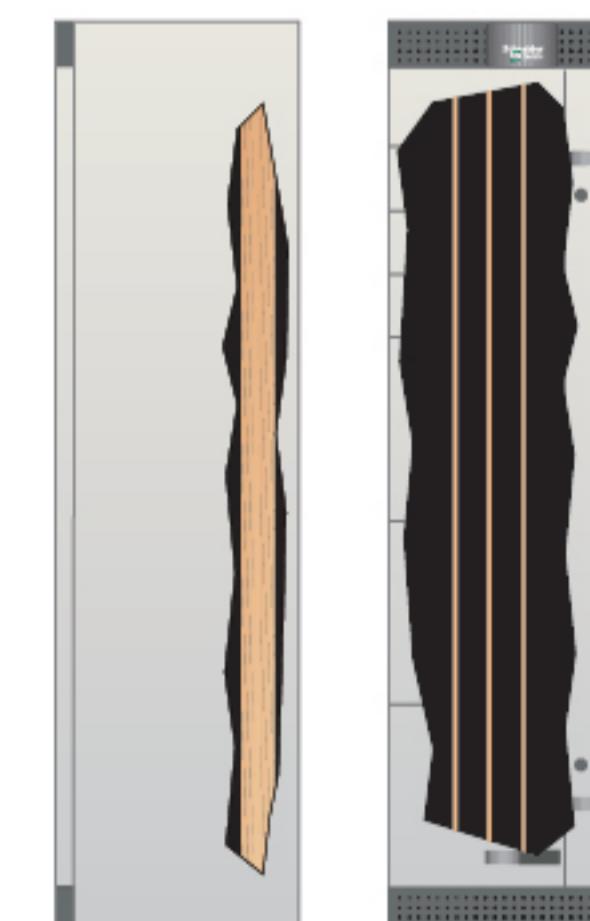
主母线，6300A以下

主母线对开关柜中的电流进行分配。每相由单根或多根铜排组成，每根铜排为 5mm厚。

配电母线，1000/1200/1700/2100A

配电母线承载抽屉中的可抽出式单元的电流。

配电母线使用螺母、螺栓和接触垫圈与主母线相连接。



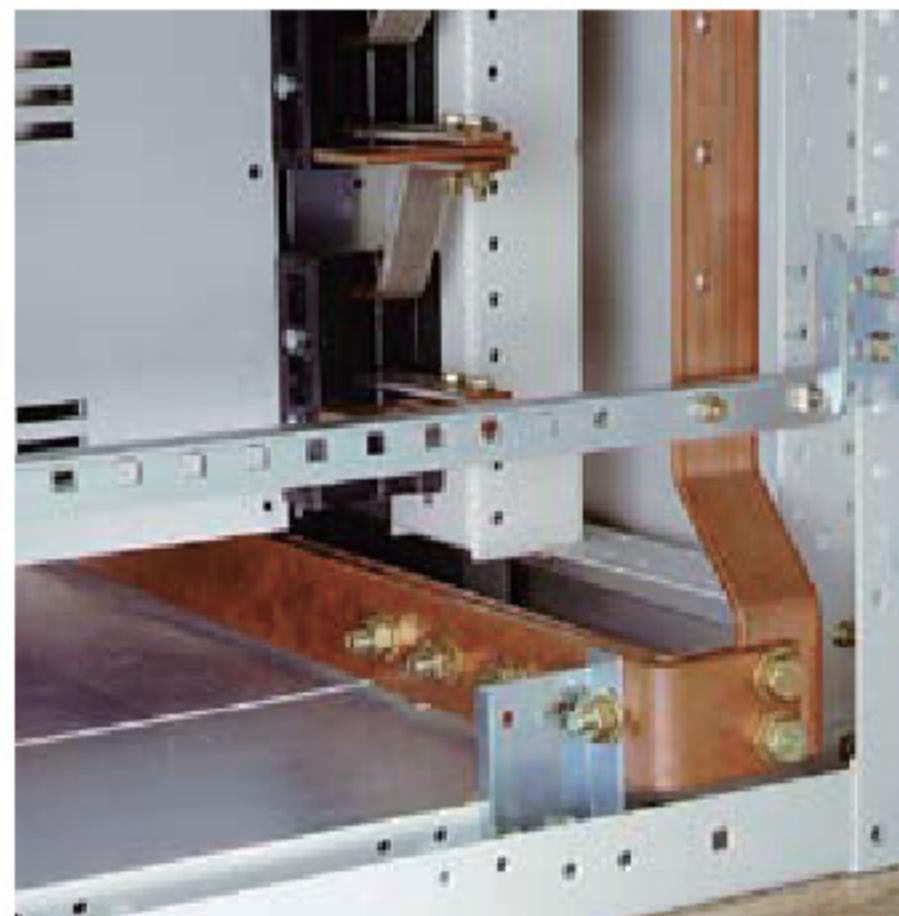
T-Power Intelligent Low-voltage Withdrawable Switchgear (High Standard Type)
T-Power 智能型低压抽出式开关柜 (高配型)

■ Protective circuit

The busbars of the protective circuit are intended for connection of the protective conductors for the switchgear components, to provide equipotential bonding of exposed conductive parts.

■ Auxiliary buses

The auxiliary buses supply the control and monitoring circuits with power.

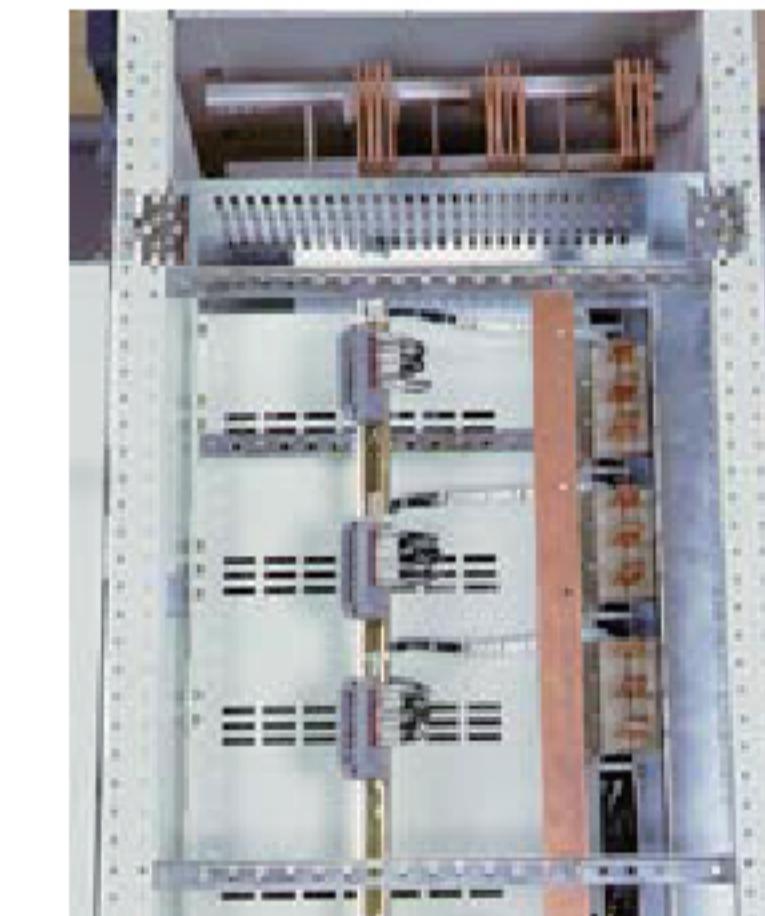


■ 接地母线

接地母线用于连接开关元件的保护导线，将暴露的导电体部分进行等电位连接。

■ 控制母线

控制母线向控制和检测电路供电。



Electrical and mechanical characteristic 电气和机械特性

Compliance with international standards / 准标

Type tested assemblies 型式实验	GB7251 / IEC 60439-1
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Internal arc withstand 内部燃弧耐受	AS 3439 / 1
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Electrical Characteristics / 电气特性

Rated insulation voltage 额定绝缘电压	1000VAC
Rated operational voltage 额定运行电压	400/690VAC
Rated impulse withstand voltage 额定冲击耐受电压	12kV
Overvoltage category 过压类别	IV
Degree of pollution 污染等级	3
Frequency 频率	50/60Hz

Main busbars rated current / 额定电流

Main busbars 主母线	Single busbars 单母线	Double busbars (1) 双母线(1)
Rated current 额定电流	upto 4000A 4000A 以下	up to 6300A (1) 6300A 以下 (1)
Rated peak withstand current 额定峰值耐受电流	63, 105 , 143, 187kA	220kA
Rated short-time current 额定短时耐受电流	30, 50 , 65, 85kA rms / 1s	100kA rms / 1 s

Surface Protection / 表面保护

External surface protection 外壳表面防护	Epoxy powder polymerised at high temperature 环氧树脂粉末高温聚合
Standard colors 标准颜色	RAL 9002 (greyish white) / RAL 7016 (graphite grey) RAL 9002 (浅驼灰色) / RAL 7016 (灰黑色)

T-Power Intelligent Low-voltage Withdrawable Switchgear (High Standard Type)
T-Power 智能型低压抽出式开关柜 (高配型)

Applications for distribution, power factor correction and motor control

用于动力配电、功率因素补偿及马达控制

Reference and type / 柜型	D	C	W
Functionality 功能	Power Center Cubicle 动力配电站	Power factor correction cubicle 电容柜	Withdrawable-type cubicle 抽屉柜
Distribution busbars / 配电母线			
Rated current 额定电流	up to 3200A 3200A 以下	-	up to 2100A 2100A 以下
Rated peak withstand current 额定峰值耐受电流	63, 105 , 143 , 187kA	-	105,176kA
Rated short-time current 额定短时耐受电流	30, 50 , 65 , 85kA rms / 1s	-	50,80kArms/1 s
Outgoing / 倒出			
Motor feeders 电动机	-	-	up to 250kW 250kW 以下
Distribution feeders 配电	up to 6300A 6300A 以下	-	up to 500 A 500 A 以下
Mechanical characteristics / 机械特性			
Total height 总高度	2200mm	2200mm	2200mm
Usable height (1module = 50mm) 有效高度 (1个模数 = 50mm)	40M	40M	40M
Width 宽度	700, 900, 1100, 1200 or 1300mm	700 , 900mm	600mm
Depth 深度	400, 600, 1000mm	400 , 600mm	1000mm
Functional unit type 功能单元类型	FFF/WWW	FFF	WWW
Forms according to IEC 60439-1 IEC 60439-1 分隔形式	1/2b / 3b / 4	1 / 2b	3b / 4
Degree of protection according to IEC 60529 IEC 60529 防护等级	IP 31 / 42 / 54	IP 20 / 31	IP 31 / 42 / 54

Application Guide 一次系统推荐方案

T-Power D Power Center Cubicle

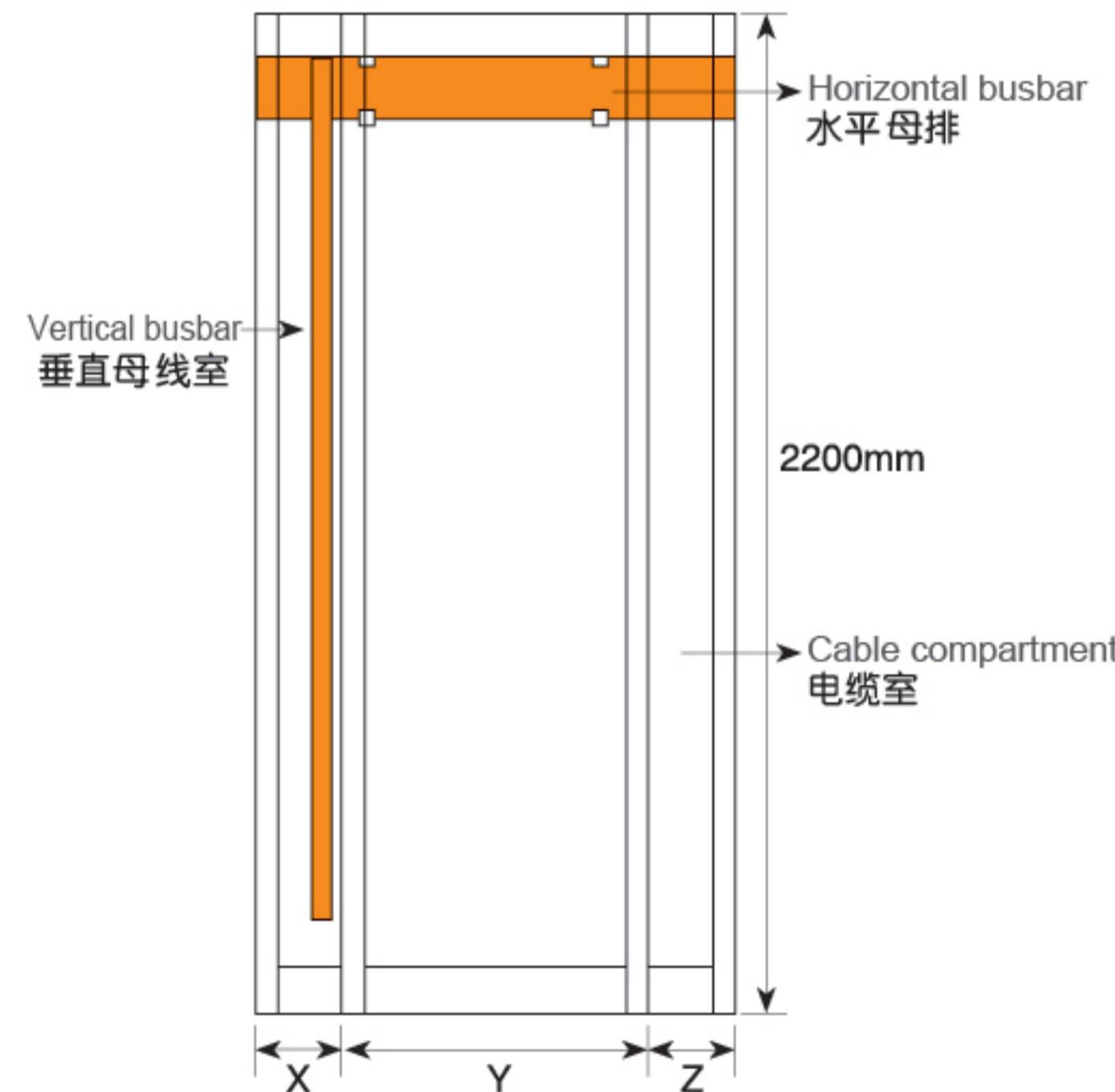
- T-Power D is a fixed separated LV switchgear with modular structure.
- Height:
 - T-Power D The effective installation height is 40 modules (each module is 50mm), including circuit breaker compartment and busbar compartment.
 - When rated current of horizontal basbar is up to 4000A, single-layer busbar occupied 4M, effective installation height for components is 36M.
 - When rated current of horizontal basbar is higher than 4000A, double-layer busbar occupied 8M, effective installation height for components is 32M.
- Width:
 - T-Power D may be installed flexibly according to various application, it is combined with one basic frame and numbers of extensions.
- Depth:
 - T-Power D depth: 600mm and 1000mm
 - 1000mm is formed by one 600mm and 400mm frame.

Width 总宽度	Vertical busbar width 垂直母线室 宽度(X)	Frame width 主框架 宽度(Y)	feeder width 出线电缆室 宽度(Z)
700		700	
900	200	700	
	200	700	200
1100	400 ⁽¹⁾	700	
	700	400	
1300	200	700	400
1200		1200	
1600	400 ⁽¹⁾	1200	

(1) Only for above 4000A bus-coupling cubicle
仅用于4000A以上的母联

配电开关柜 T-Power D

- T-PowerD为固定分隔式低压配电开关柜，柜体采用模块化结构
- 高度
 - T-PowerD有效安装高度为40个模数(每个模数为50mm)，其中包括开关隔室和母线隔室
 - 当水平母线额定电流小于4000A，单层母排占用模数4M，元件的有效安装高度为36M
 - 当水平母线额定电流大于4000A，双层母排占用模数8M，元件的有效安装高度为32M
- 宽度
 - T-Power D的宽度可以根据应用需要灵活配置，它由一个基本框架和多个扩展框架构成
- 深度
 - T-Power D柜体深度分为：600和1000mm
 - 1000mm深柜体由一个600mm和一个400mm深的框架组成



- For right-angle arrangement, corner cubicle can be used for connection.

Main features:

- Used for top or bottom single busbar (max.4000A) or double busbar (max.6300A)
- Usable Degree of protection: IP20, 31, 42 , 54
- Icw 85kA
- Switchgear can be positioned back to back, and completed with horizontal busbar connection
- Horizontal busbar connection occupies 10 modules (horizontal busbar included)

Main features:

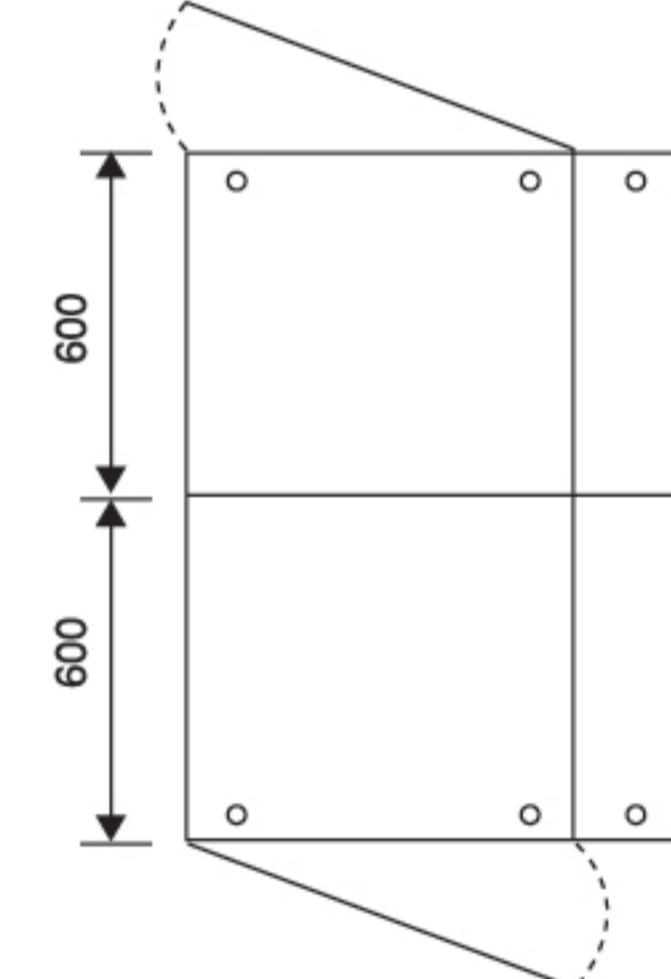
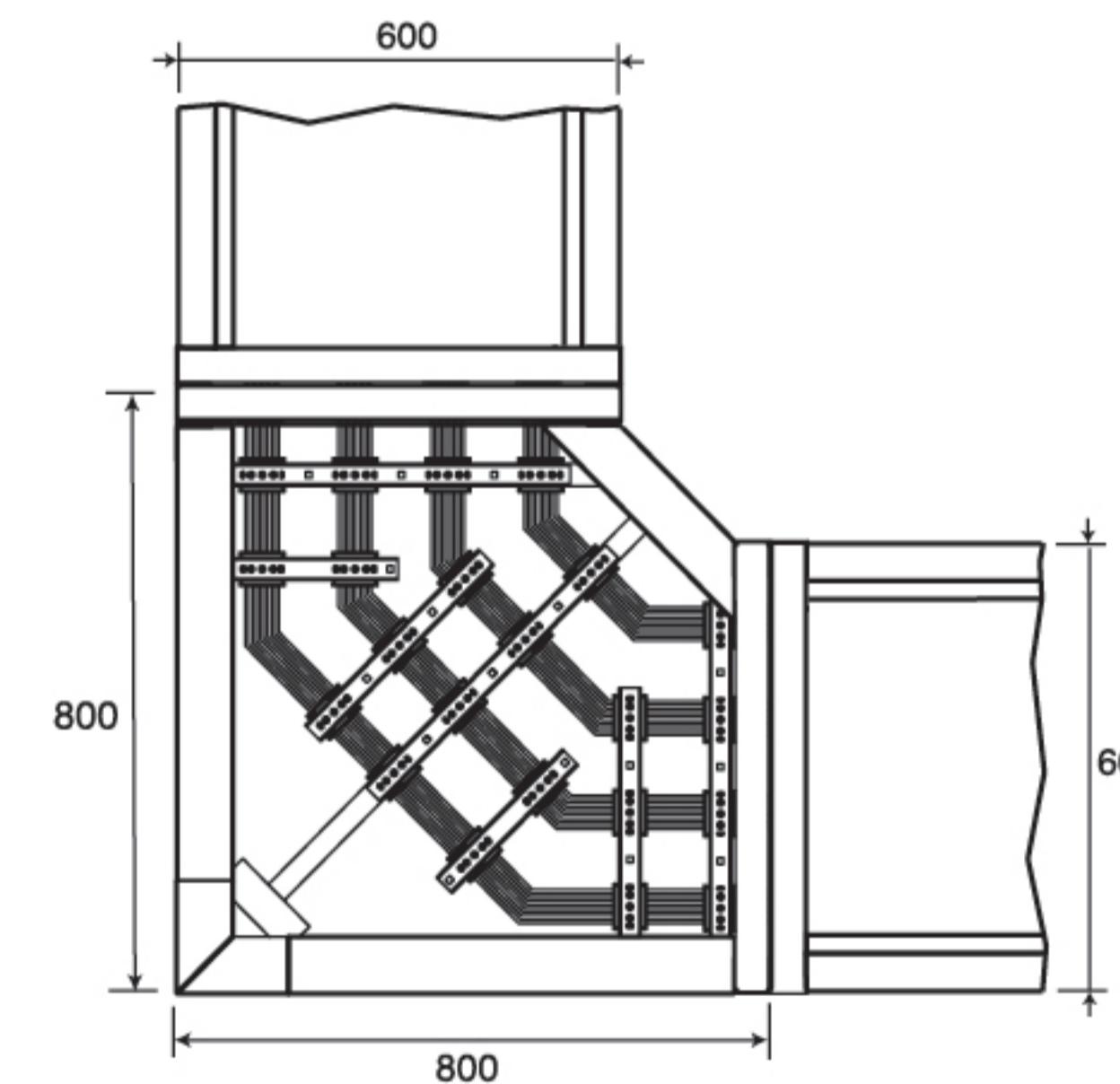
- only used for top or bottom single busbar (max 4000A)

- 对于成直角排列的两列柜体，可以使用如下的转角柜进行连接

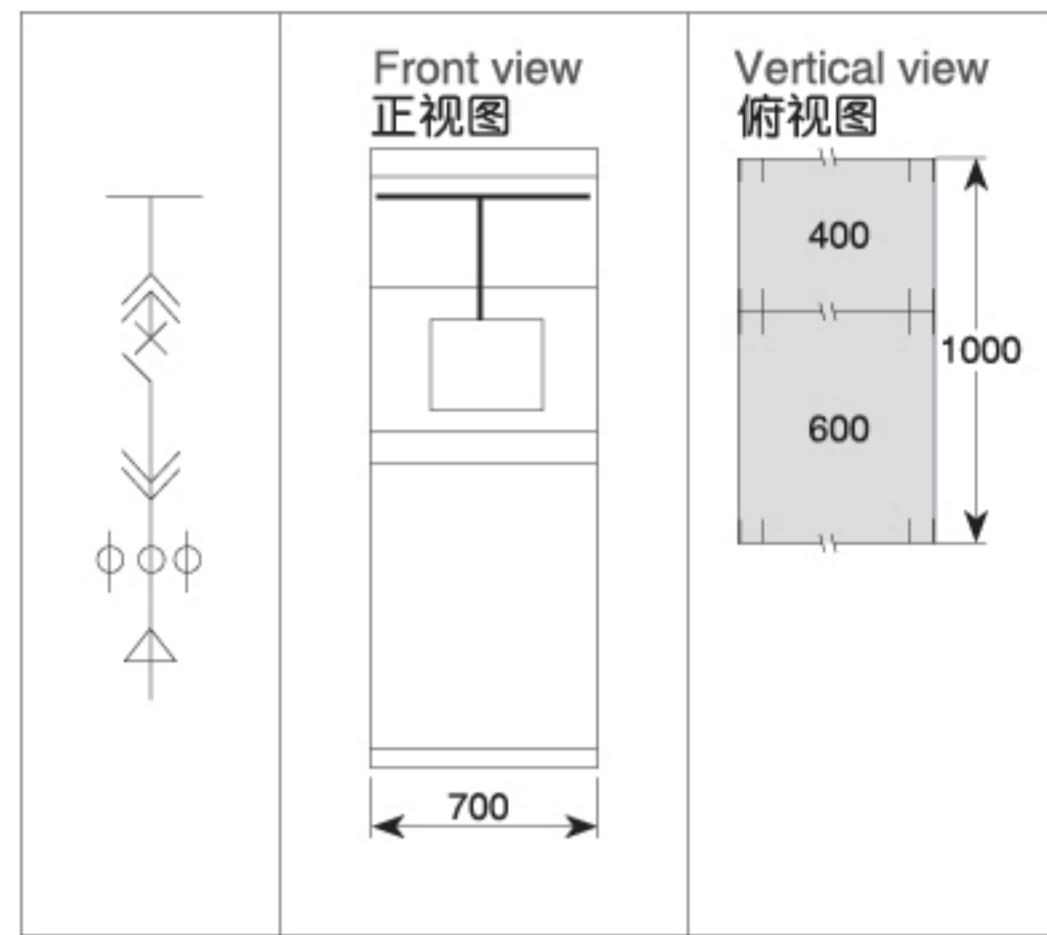
主要特征：

- 用于柜顶或者柜底安装的单母线 (最大电流4000A) 或者双母线 (最大电流6300A)
- 可用的防护等级 : IP20,31,42,54
- Icw 85kA
- 开关柜可以进行背靠背布置，在开关柜内完成水平母线的连接
- 水平母排的转接需要占用10个模数 (包括水平母线在内)

- 只用于柜顶或者柜底安装的单母线 (最大电流4000A)

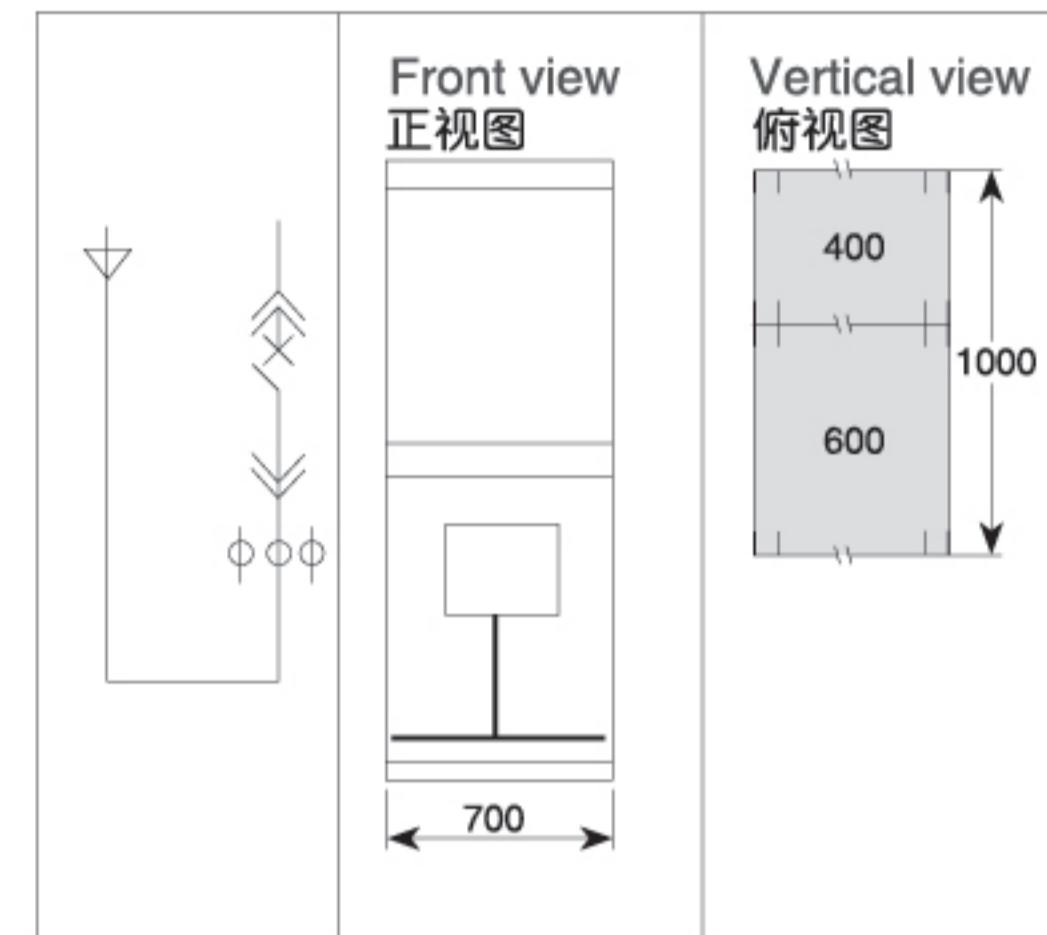


T-Power Intelligent Low-voltage Withdrawable Switchgear (High Standard Type)
T-Power 智能型低压抽出式开关柜 (高配型)

■ Bottom entry 底部进线

Indication:

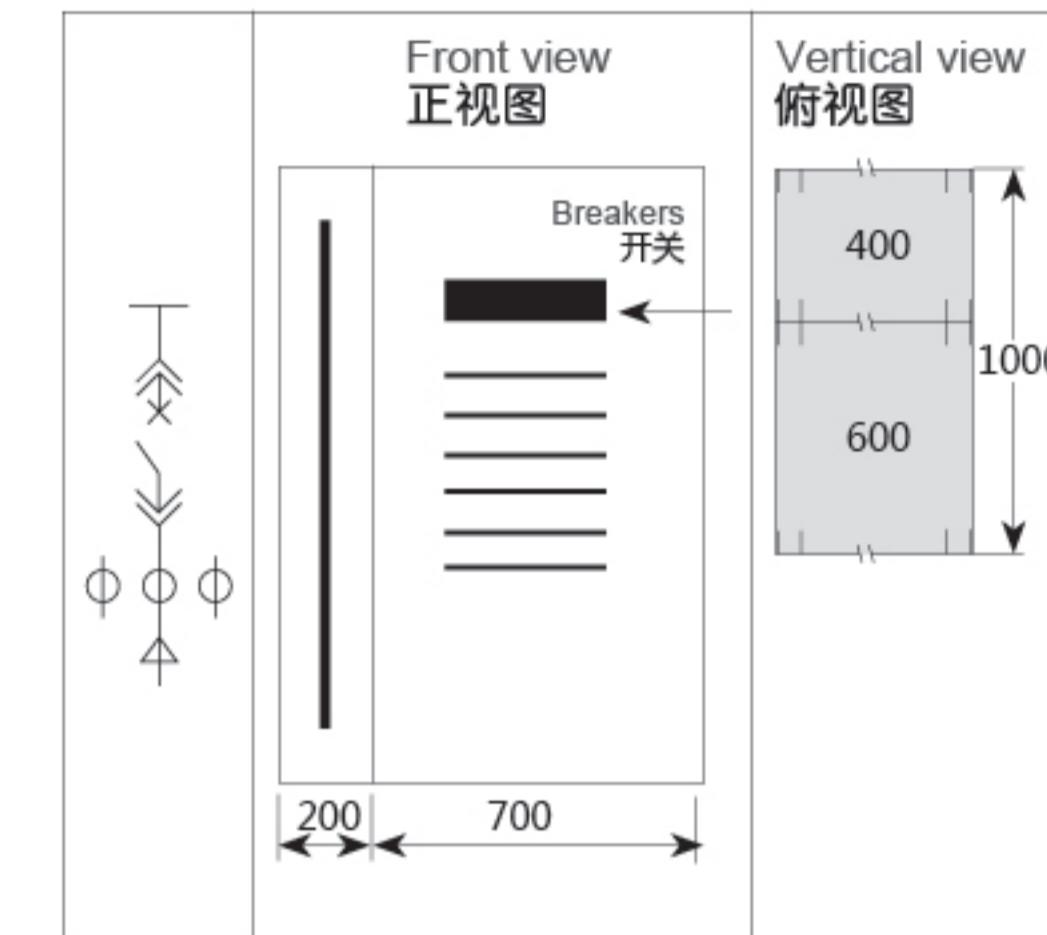
- (1) Recommended width is 700mm. The width of a 200mm vertical busbar compartment may need to be added for feeder Circuit installation.
- (2) Recommended width is 600mm or 1000mm deep(600mm deep is as component compartment, 1000mm is as cable compartment).
- (3) When $In \geq 4000A$, recommended width is 1200mm and depth is 1000mm.

■ Top entry 顶部进线

说明 :

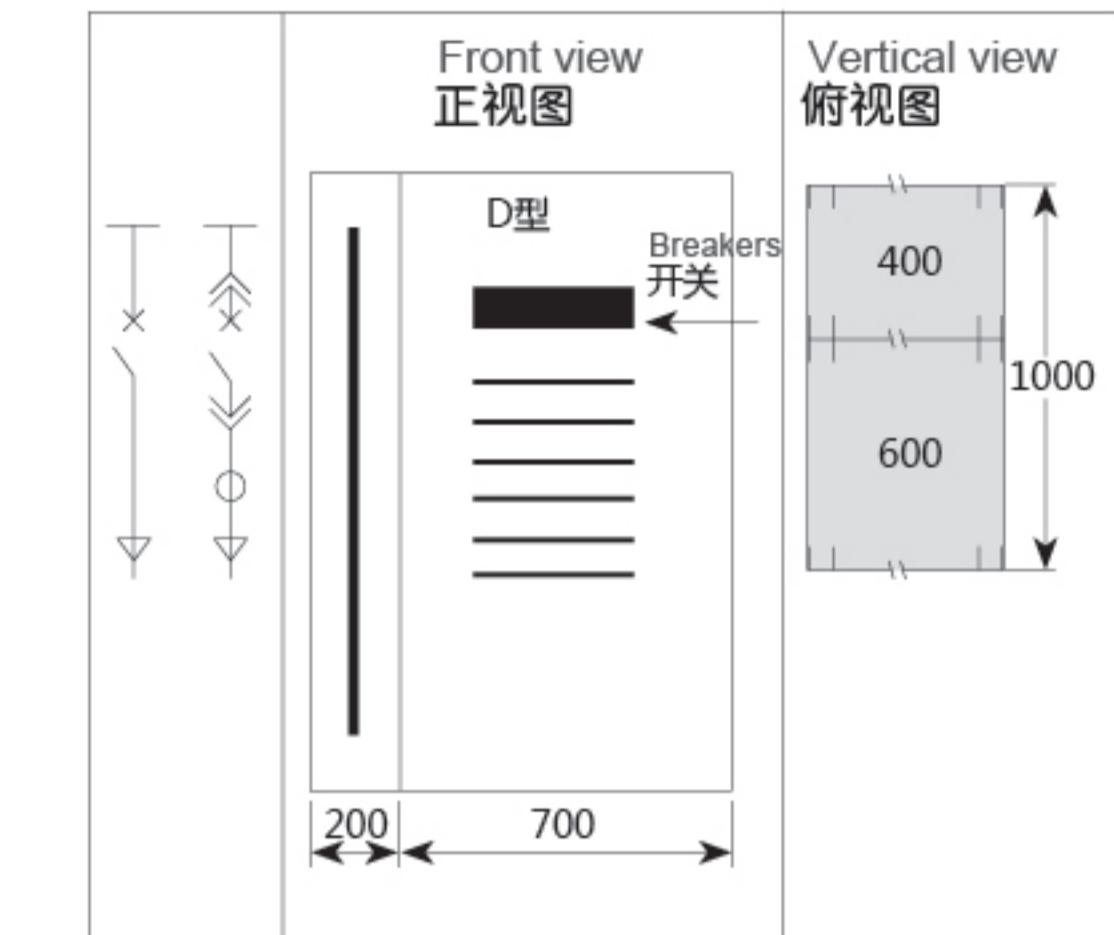
- (1) 推荐柜宽700mm。如需安装馈电回路则需增加200mm的垂直母线室。
- (2) 推荐柜深为600或1000mm (前600mm为元件室, 后400mm为电缆室)。
- (3) 当 $In \geq 4000A$, 推荐柜宽1200mm, 柜深1000mm。

T-Power Intelligent Low-voltage Withdrawable Switchgear (High Standard Type)
T-Power 智能型低压抽出式开关柜 (高配型)

■ Feeder 馈电

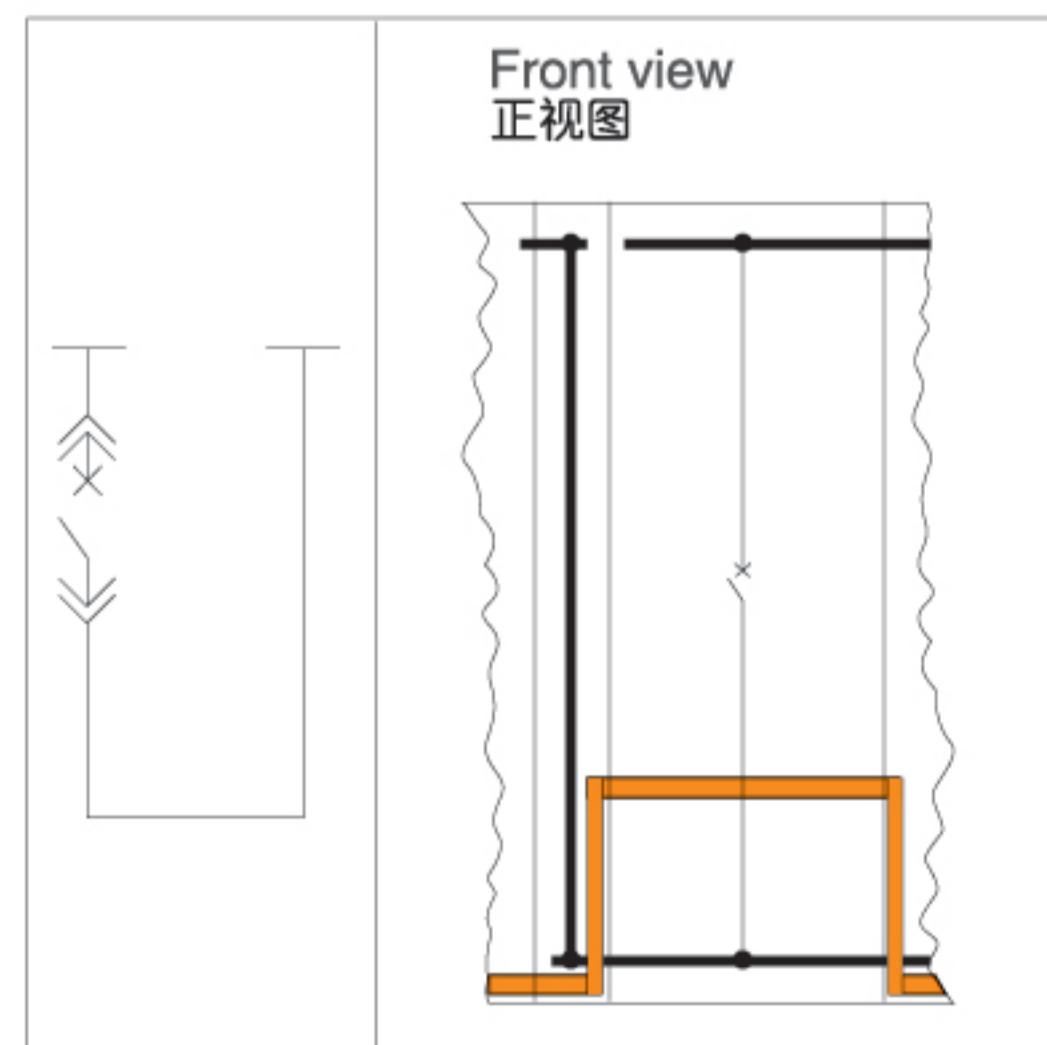
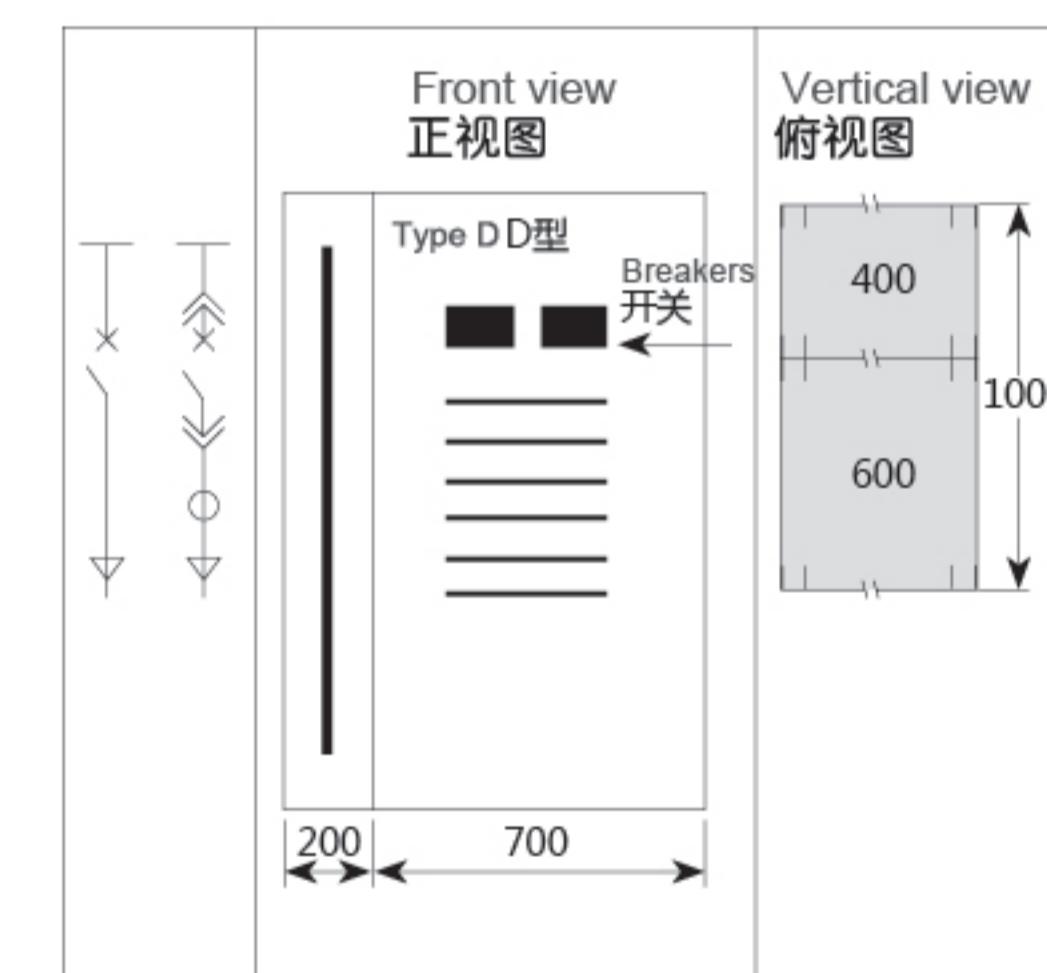
Indication:

- (1) Rear outgoing: 900×1000×2200mm (width×depth×height)
 - (2) Side outgoing: the width of a 200mm or 400mm deep cable compartment need to be added on the right-side, 1100(1300)×600×2200mm (width×depth×height)
- 说明: (1) 后出线, 900×1000×2200mm(宽×深×高)。
 (2) 侧出线, 需在右侧增加200或400mm宽的电缆室, 1100(1300)×600×2200mm(宽×深×高)。

■ Feeder(Single Horizontal Mounting)
馈电 (单个水平安装)


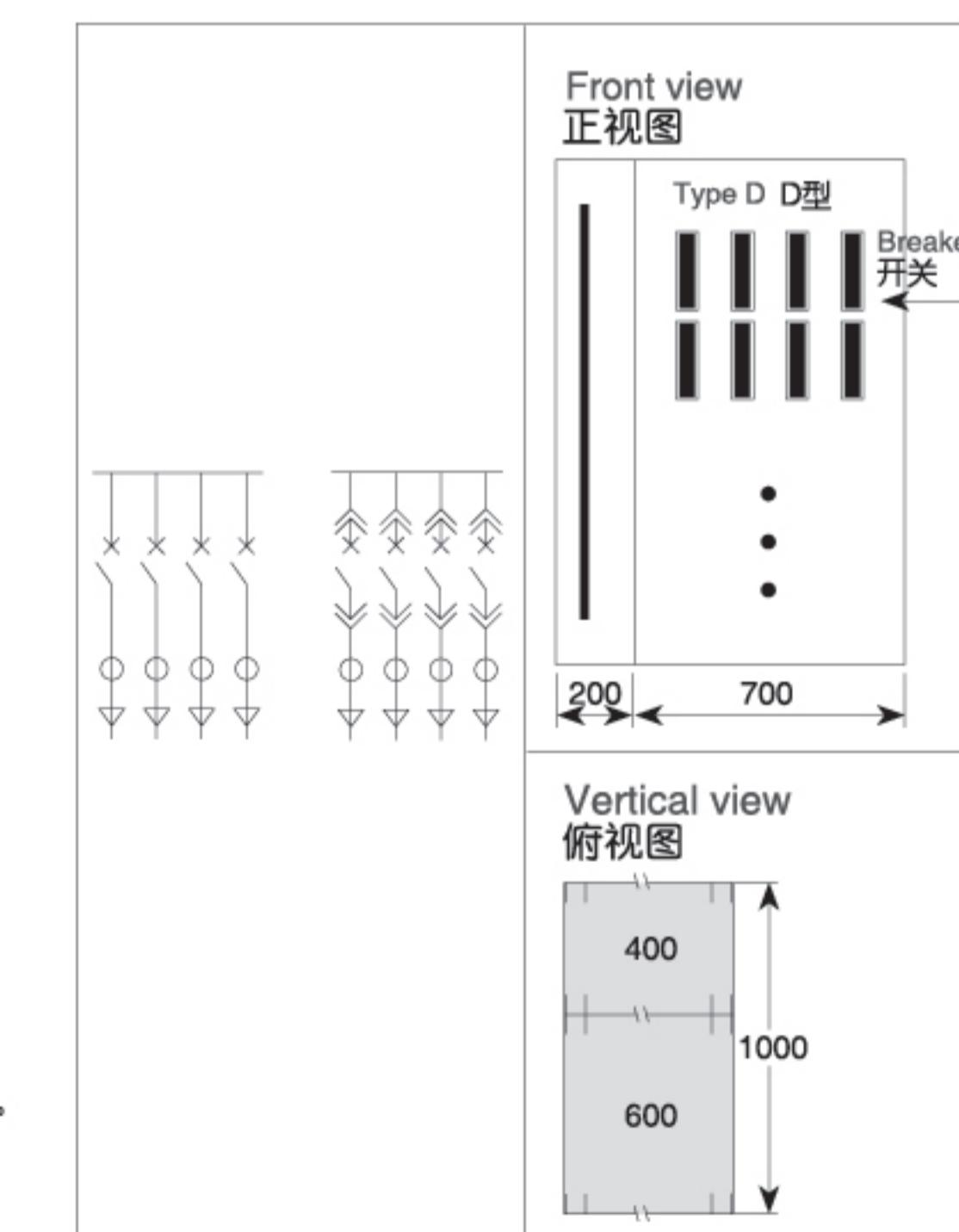
Indication:

- (1) Rear outgoing: 900×1000×2200mm (width×depth×height)
 - (2) Side outgoing: the width of a 200mm or 400mm deep cable compartment need to be added on the right-side, 1100×600×2200mm (width×depth×height)
- 说明: (1) 后出线, 900×1000×2200mm(宽×深×高)。
 (2) 侧出线, 需在右侧增加200或400mm宽的电缆室, 1100×600×2200mm(宽×深×高)。

■ Bus-tie 母联
■ Feeder(Double Horizontal Mounting)
馈电 (两个水平安装)


Indication:

- (1) Rear outgoing: 900×1000×2200mm (width×depth×height)
 - (2) Side outgoing: the width of a 200mm or 400mm deep cable compartment need to be added on the right-side, 1100×600×2200mm (width×depth×height)
- 说明: (1) 后出线, 900×1000×2200mm(宽×深×高)。
 (2) 侧出线, 需在右侧增加200或400mm宽的电缆室, 1100×600×2200mm(宽×深×高)。

■ Feeder (Vertical installation)
馈电 (垂直安装)


Indication:

- (1) Rear outgoing: 900×1000×2200mm (width×depth×height)
 - (2) Side outgoing: the width of a 200mm or 400mm deep cable compartment need to be added on the right-side, 1100×600×2200mm (width×depth×height)
- 说明: (1) 后出线, 900×1000×2200mm(宽×深×高)。
 (2) 侧出线, 需在右侧增加200或400mm宽的电缆室, 1100×600×2200mm(宽×深×高)。

T-Power Intelligent Low-voltage Withdrawable Switchgear (High Standard Type)
T-Power 智能型低压抽出式开关柜 (高配型)

T-Power C capacitor cubicle

- T-Power C is capacitor cubicle with modular structure
- The effective installation height is 40 modules (each 50mm)

Horizontal busbar rated current 水平母线额定电流	Ie≤1600A	1600A<Ie≤4000A	4000A<Ie≤6300A ⁽¹⁾
Effective height (module) 有效高度(模数)	40		
Horizontal busbar (module) 水平母线(模数)	4	8	
Component compartment height (module) 元件室高度(模数)	36	32	
Height 柜高(mm)	2200		
Width 柜宽(mm)	900(1)		
Depth 柜深(mm)	600/1000	600/1000	600/1000

(1) 700mm wide cubilce can also be used
也可以采用 700mm宽的柜体。

- 最大安装容量：
自然通风180kVar 强迫通风480kVar

T-Power C 电容柜设计说明

- T-Power C为电容柜，柜体采用模块化结构
- T-Power C有效安装高度为40个模数(每个模数为50mm)，具体尺寸见表1

T-Power Intelligent Low-voltage Withdrawable Switchgear (High Standard Type)
T-Power 智能型低压抽出式开关柜 (高配型)

T-Power W withdrawable cubicle

- T-Power W withdrawable cubicle with modular structure, basic modules are 4M/2,3M,4M,6M,9M,12M
- Three available optional protection schemes:
 - Traditional motor protection Scheme (MCC)
 - Intelligent motor protection Scheme (iMCC)
 - Intelligent distribution scheme (iPCC)
- The effective installation height is 40 modules (each 50mm), circuit breaker compartment and busbar compartment included, please see the diagram1

**Diagram 1 表1**

Horizontal busbar rated current 水平母线额定电流	In≤4000A	4000A<In≤6300A
Effective height (module) 有效高度(模数)	40	
Horizontal busbar (module) 水平母线(模数)	5	8
Component compartment height (module) 元件室高度(模数)	35	32
Height 柜高(mm)	2200	
Width 柜宽(mm)	600 ⁽¹⁾ , 800, 1000	
Depth 柜深(mm)	600, 1000	

(1) 600mm depth scheme may use rear connection
(1) 600mm柜深方案采用柜后接线方式。

Basic conditions:

- Standards: IEC60947
- Coordination type:2
- Use category :AC-3 50/60Hz
- Rated voltage: 380/415V
- The drawers of 3M or and above can be installed with three(Max.) sets of secondary connector, the total number of terminals is 30.
- The drawers of 4M/2 can be installed with two(Max.) sets of secondary connector ,the total number of terminals is 20.

所有启动方案基本条件：

- 标准：IEC 60947-4
- 协调类型：2
- 使用类别：AC-3 50/60HZ
- 额定电压：380/415V
- 3M及3M以上抽屉最多可装三组二次接插件，共30个点。
- 4M/2抽屉最多可装两组二次接插件，共20个点。



T-Power Intelligent Low-voltage Withdrawable Switchgear (High Standard Type)
T-Power 智能型低压抽出式开关柜 (高配型)

■ MCC-DOL-Coordination 2 马达控制方案 (直接启动) 配合类型二

IP + ambient temperature IP防护等级 + 环境温度 : IP ≤ 42 , 35°C
 Voltage 电压(V) : 380/415

Motor power 马达功率(kW)	Current 计算电流(A)	Circuit-breaker 断路器	Modules (1M=50mm) 安装模数
0.75	2	T-M-125	4M/2
0.75	2	T-M-125	3M
2.2	5	T-M-125	4M/2
2.2	5	T-M-125	3M
3	6.5	T-M-125	4M/2
3	6.5	T-M-125	3M
4	8.4	T-M-125	4M/2
5.5	11	T-M-125	4M/2
5.5	11	T-M-125	3M
7.5	14.8	T-M-125	4M/2
7.5	14.8	T-M-125	3M
11	21	T-M-125	4M/2
11	21	T-M-250	3M
15	28.5	T-M-250	3M
22	42	T-M-125	3M
30	57	T-M-125	3M
37	69	T-M-125	3M
45	81	T-M-125	6M
55	100	T-M-125	6M
75	135	T-M-250	9M
90	165	T-M-250	9M
110	200	T-M-250	9M
132	240	T-M-250	9M
160	285	T-M-400	9M

T-Power Intelligent Low-voltage Withdrawable Switchgear (High Standard Type)
T-Power 智能型低压抽出式开关柜 (高配型)

■ MCC-REV-Coordination 2 马达控制方案 (正反转启动) 配合类型二

IPambient + temperature IP防护等级 + 环境温度 : IP ≤ 42 , 35°C
 Voltage 电压(V) : 380/415

Motor power 马达功率(kW)	Current 计算电流(A)	Circuit-breaker 断路器	Modules (1M=50mm) 安装模数
0.75	2	T-M-125	3M
2.2	5	T-M-125	3M
3	6.5	T-M-125	6M
4	8.4	T-M-125	6M
5.5	11	T-M-125	6M
7.5	14.8	T-M-125	6M
11	21	T-M-125	6M
15	28.5	T-M-125	6M
22	42	T-M-125	6M
30	57	T-M-125	6M
37	69	T-M-125	6M
45	81	T-M-125	9M
55	100	T-M-250	9M
75	135	T-M-250	9M

■ IPCC 智能配电方案

IP + ambient temperature IP防护等级 + 环境温度 : IP ≤ 42 , 35°C
 Voltage 电压(V) : 380/415

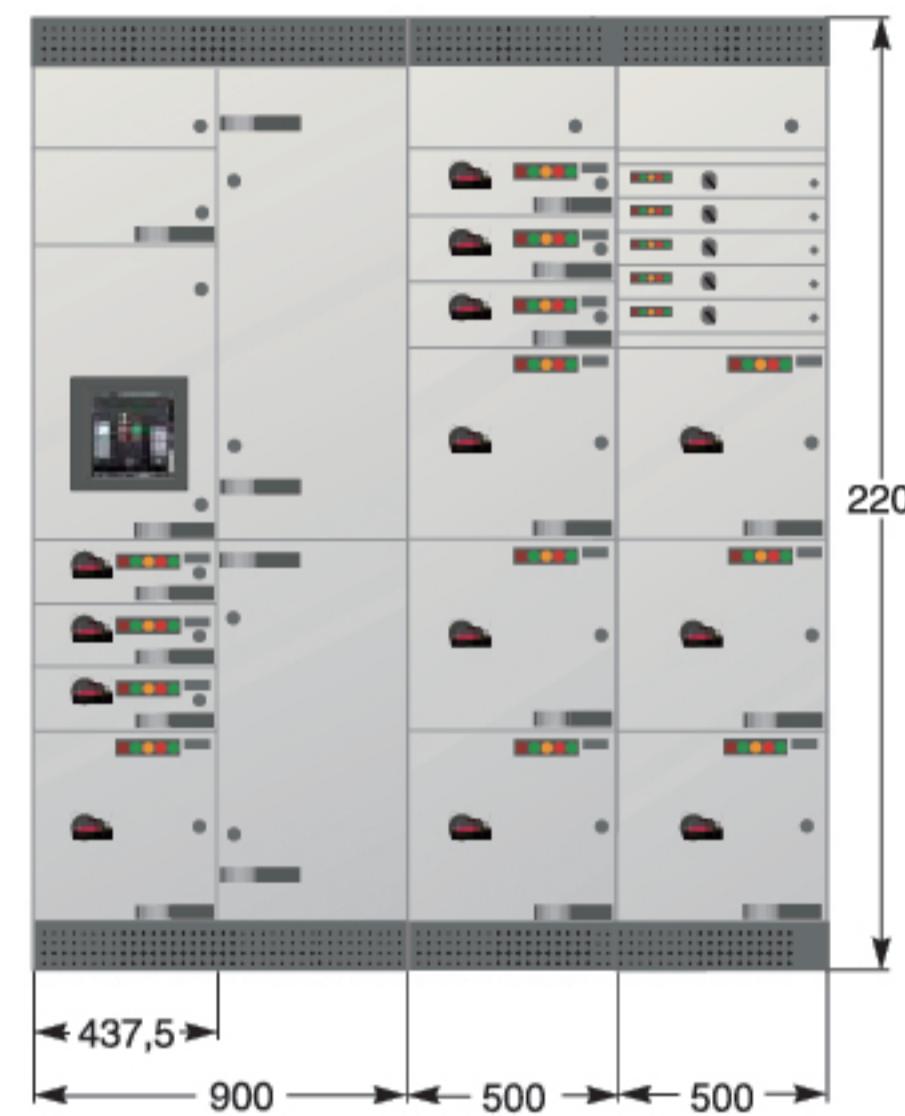
Motor power 马达功率(kW)	Current 计算电流(A)	Circuit-breaker 断路器	Modules (1M=50mm) 安装模数
	100	T-M-125 3P	3M
	100	T-M-125 4P	4M
	250	T-M-250 3P	3M
	250	T-M-250 4P	4M
	400	T-M-400 3P	6M
	400	T-M-400 4P	9M

T-Power Intelligent Low-voltage Withdrawable Switchgear (High Standard Type)
T-Power 智能型低压抽出式开关柜 (高配型)

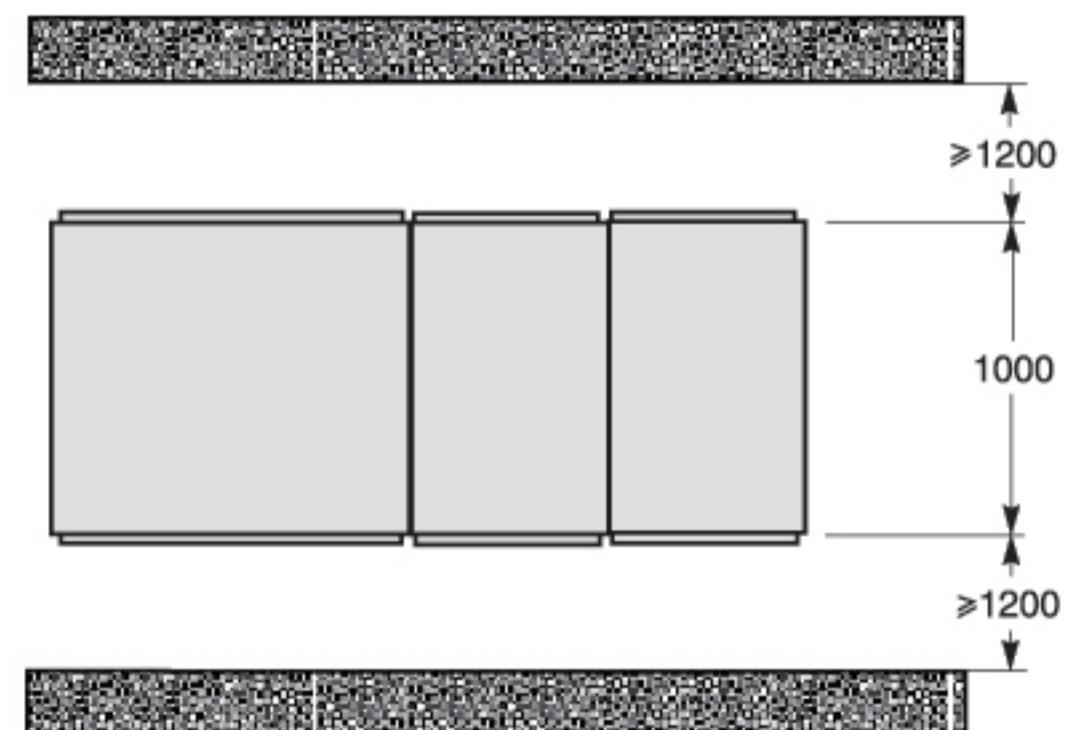
T-Power Intelligent Low-voltage Withdrawable Switchgear (High Standard Type)
T-Power 智能型低压抽出式开关柜 (高配型)

Dimensions and installation(High Standard Type)尺寸和安装 (高配型)

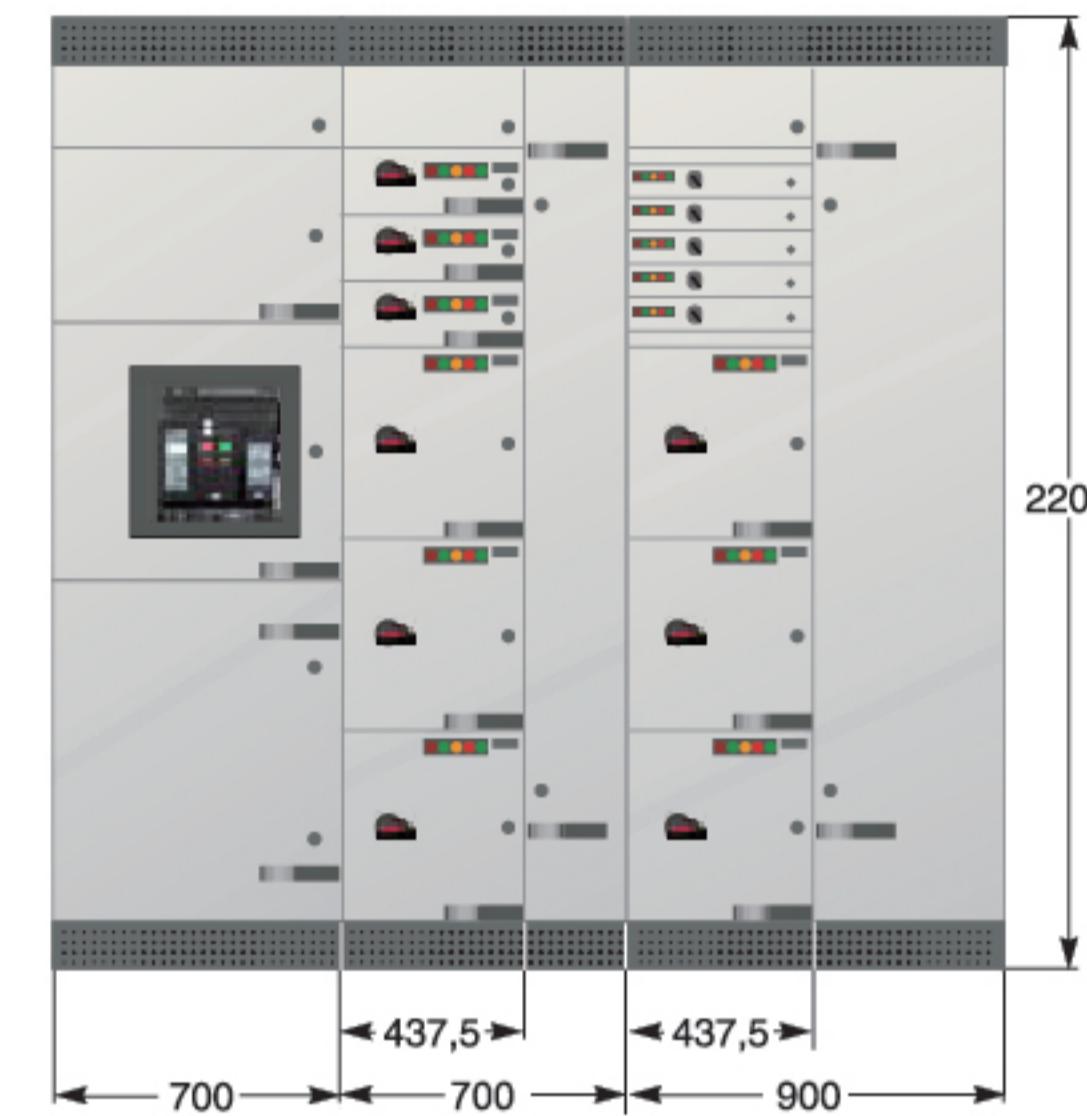
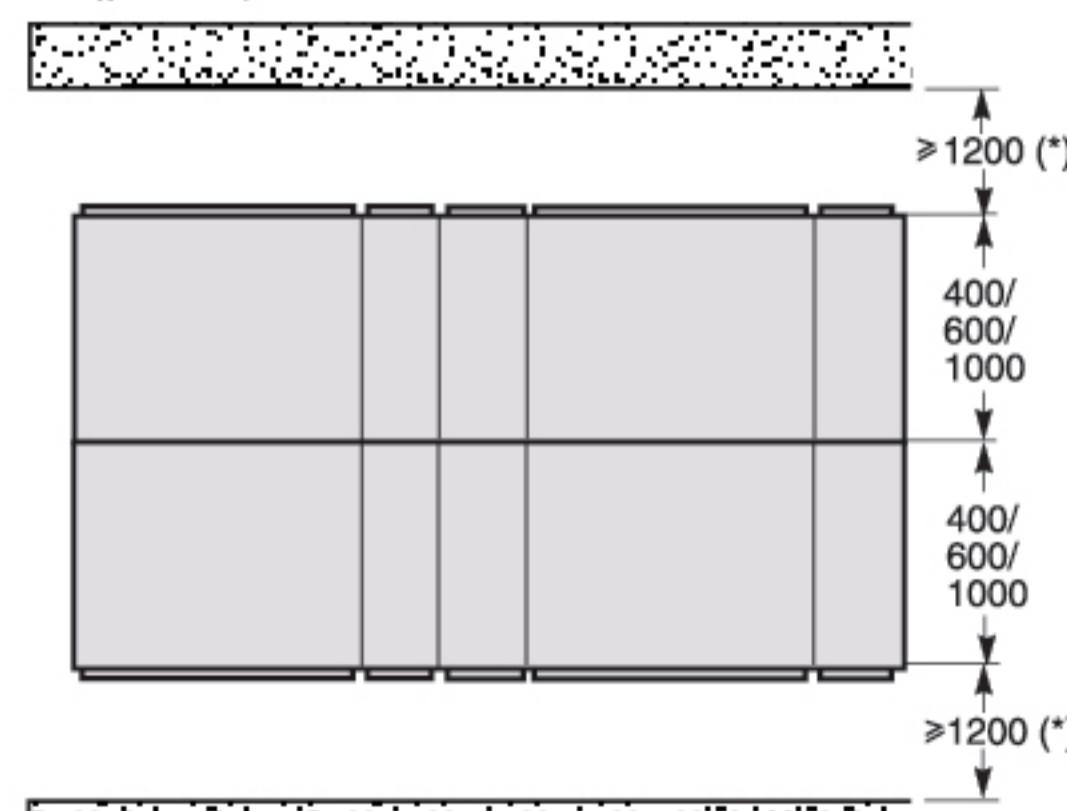
Dimensions 尺寸



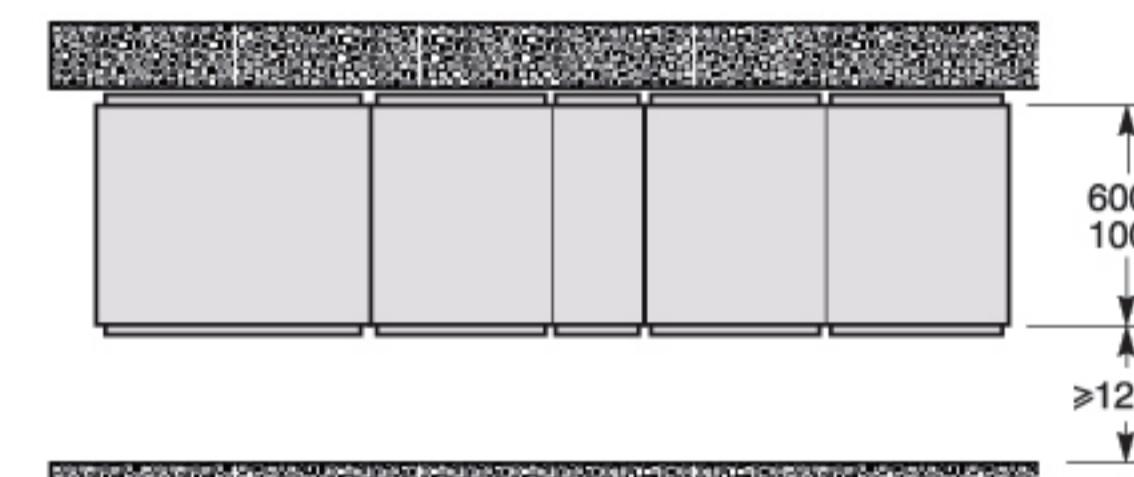
Rear access
柜后接线



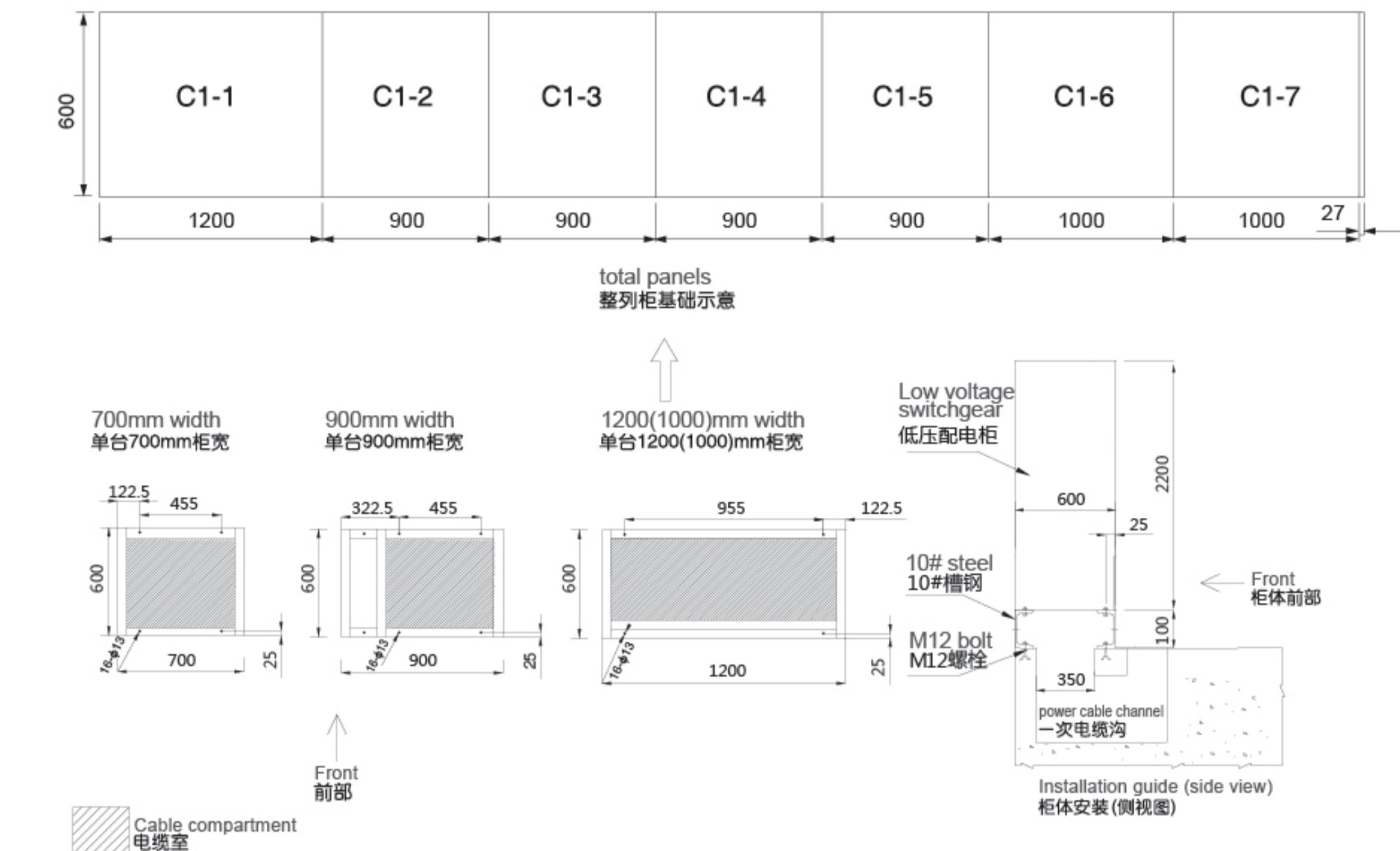
Back-to-back installation
背靠背安装



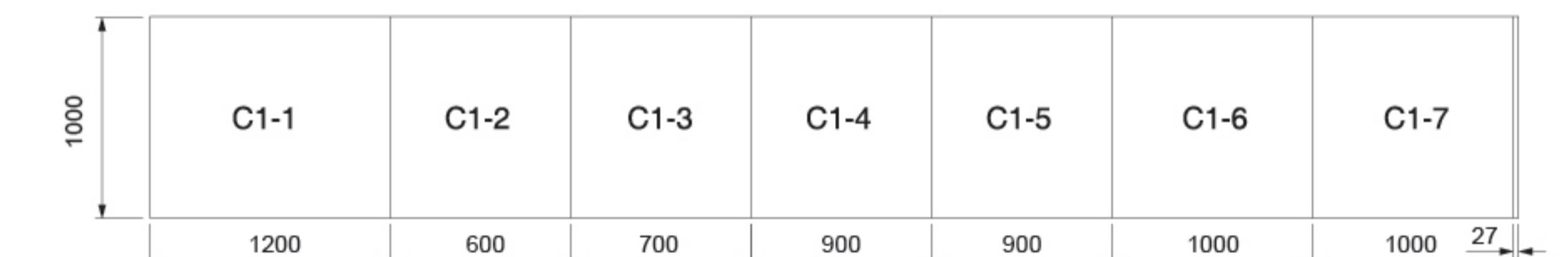
Front access
柜前接线



T-Power cabinet wiring foundation plans(High Standard Type)T-Power柜前接线地基图(高配型)



T-power cabinet wiring foundation plans(High Standard Type) T-power柜后接线地基图(高配型)



T-Power Intelligent Low-voltage Withdrawable Switchgear (Standard Type)
T-Power 智能型低压抽出式开关柜 (标准型)

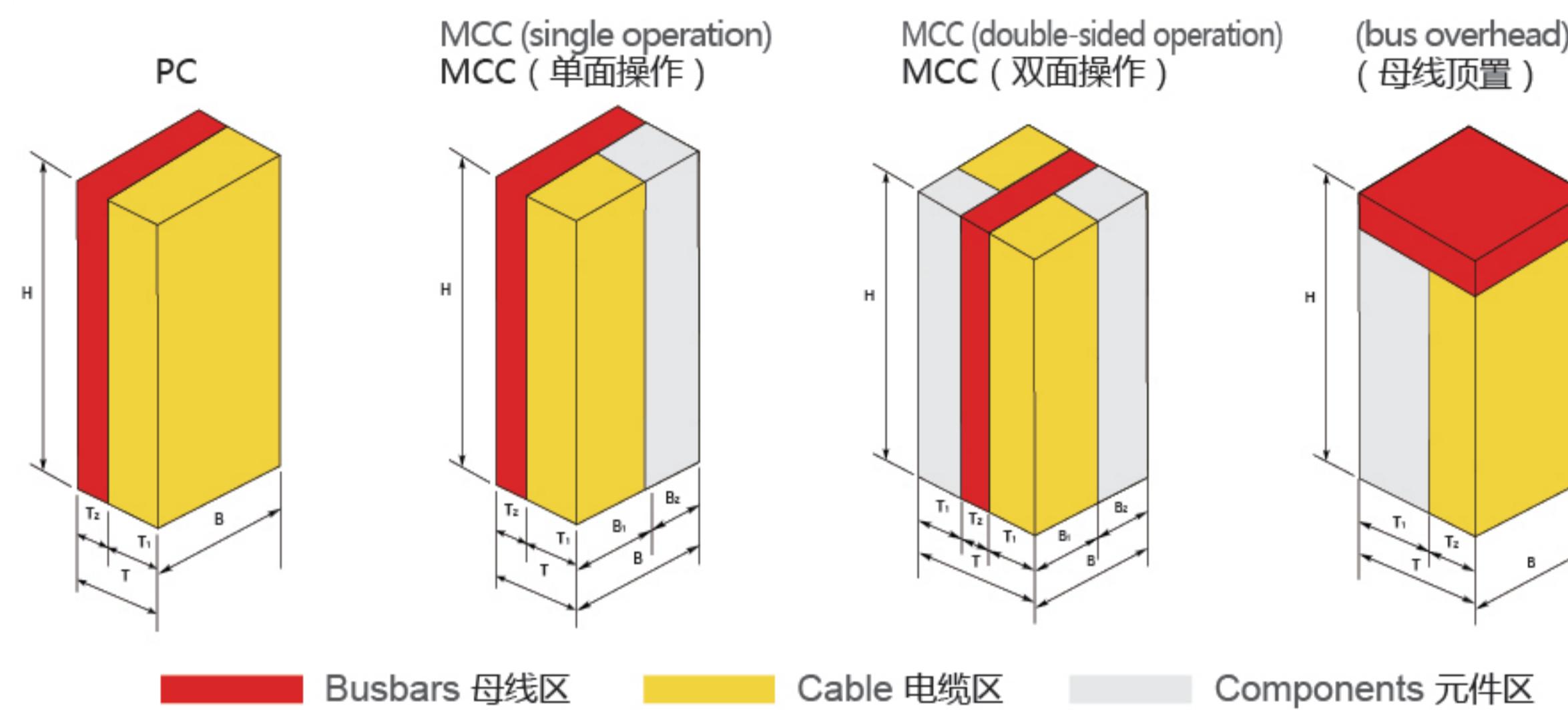
In order to better adapt to domestic market needs, we introduced a kind of standard economic product in addition to high standard products.

为了更好地适应国内市场需要，我公司除高配型产品还推出一款标准经济型产品。

Structure of the Cubicle 柜体结构

The basic structure of cubicle is assembled with C-profile shaped form sheet steel with mounting holes at E=25mm modular interval. with all cubicle frames and partition plates inside being treated with zinc-plating and passivation, with all side walls being coated with paint.

The structure of the cubicle is shown in figure. The dimensions of the cubicle frame for power center (PC) and MCC are shown in table 1. and table 2.



Schematic diagram of cubicle 柜体示意图

Power center(PC)cubicle 动力配电中心(PC)柜

Table1 表1

Height 高 Hmm	Width 宽 Bmm	Depth 深			Remarks 备注
		Tmm	T1mm	T2mm	
2200	400	1000	800	200	Changeover of the main busbars 主母线转接
2200	400	1000	800	200	MT06-16N
2200	600	1000	800	200	MT08-20H
2200	800	1000	800	200	MT25-32H
2200	1000	1000	800	200	MT40H
2200	1200	1000	800	200	MT50H
母线顶置方案					
2200	400	1000	600	400	Changeover of the main busbars 主母线转接
2200	400	1000	600	400	MT06-16N
2200	600	1000	600	400	MT08-20H
2200	800	1000	600	400	MT25-32H
2200	1000	1000	600	400	MT40H
2200	1200	1000	600	400	MT50H

Power center(MCC)cubicle 马达控制配电中心(MCC)柜

Table2 表2

Height 高 Hmm	Width 宽			Depth 深			Remarks 备注
	Bmm	B1mm	B2mm	Tmm	T1mm	T2mm	
2200	1000	600	400	600	400	200	MCC cubicle,front operating 单面操作
2200	1000	600	400	1000	400	200	MCC cubicle,front&rear operating 双面操作

T-Power Intelligent Low-voltage Withdrawable Switchgear (Standard Type)
T-Power 智能型低压抽出式开关柜 (标准型)

Type of the Drawer 抽屉类型

■ There are five standard sizes based on 8E=200mm for reference height.

- 8E/4: assembling 4 drawer units in the space of 8E height.
- 8E/2: assembling 2 drawer units in the space of 8E height.
- 8E: assembling 1 drawer unit in the space of 8E height.
- 16E: assembling 1 drawer unit in the space of 16 E height(400mm).
- 24E: assembling 1 drawer unit in the space of 24 E height(600mm).

MCC is available in 5 types of drawers

- 8(H)200×(W)150×(D)400mmE/4;
 8(H)200×(W)300×(D)400mmE/2;
 8(H)200×(W)600×(D)400mmE;
 1(H)400×(W)600×(D)400mmE;
 2(H)600×(W)600×(D)400mmE;

From among the 5 kinds of drawer unit, one can make up cubicles either with all the same units or with units of different size in mixed arrangement. Number of drawer unit held at most in one cubicle for single assembly is shown in table 3.

■ 有五种标准尺寸，都是以8E(200mm)高度为基准：

- 8E/4：在8E高度空间组装4个抽屉单元。
- 8E/2：在8E高度空间组装2个抽屉单元。
- 8E：在8E高度空间组装1个抽屉单元。
- 16E：在16E(400mm)高度空间组装1个抽屉单元。
- 24E：在24E(600mm)高度空间组装1个抽屉单元。

MCC(电动机控制中心)的抽屉分为以下5种：

- 8E/4：高200×宽150×深400mm
 8E/2：高200×宽300×深400mm
 8E：高200×宽600×深400mm
 16E：高400×宽600×深400mm
 24E：高600×宽600×深400mm

五种抽屉单元可在同一个柜体中作单一组装，也可作混合组装，一个体中作单一组装最多容纳抽屉单元数见表3所示。

Table3 表3

Type of the Drawer 抽屉型式	8E/4	8E/42	8E	16E	24E
Number of Drawer Unit 最多容纳单元数	36	18	9	4	3



8E/4



8E/2



8E



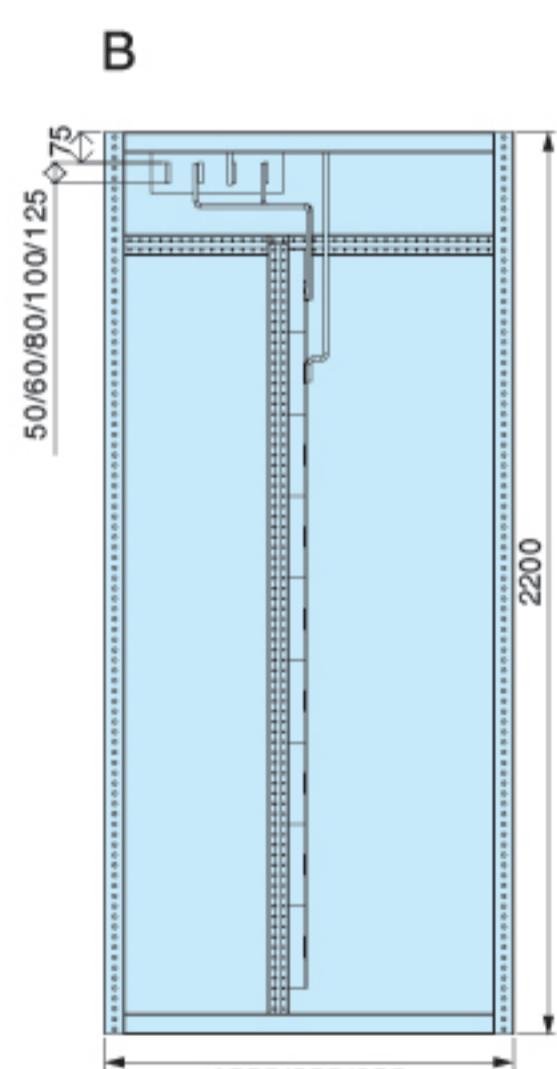
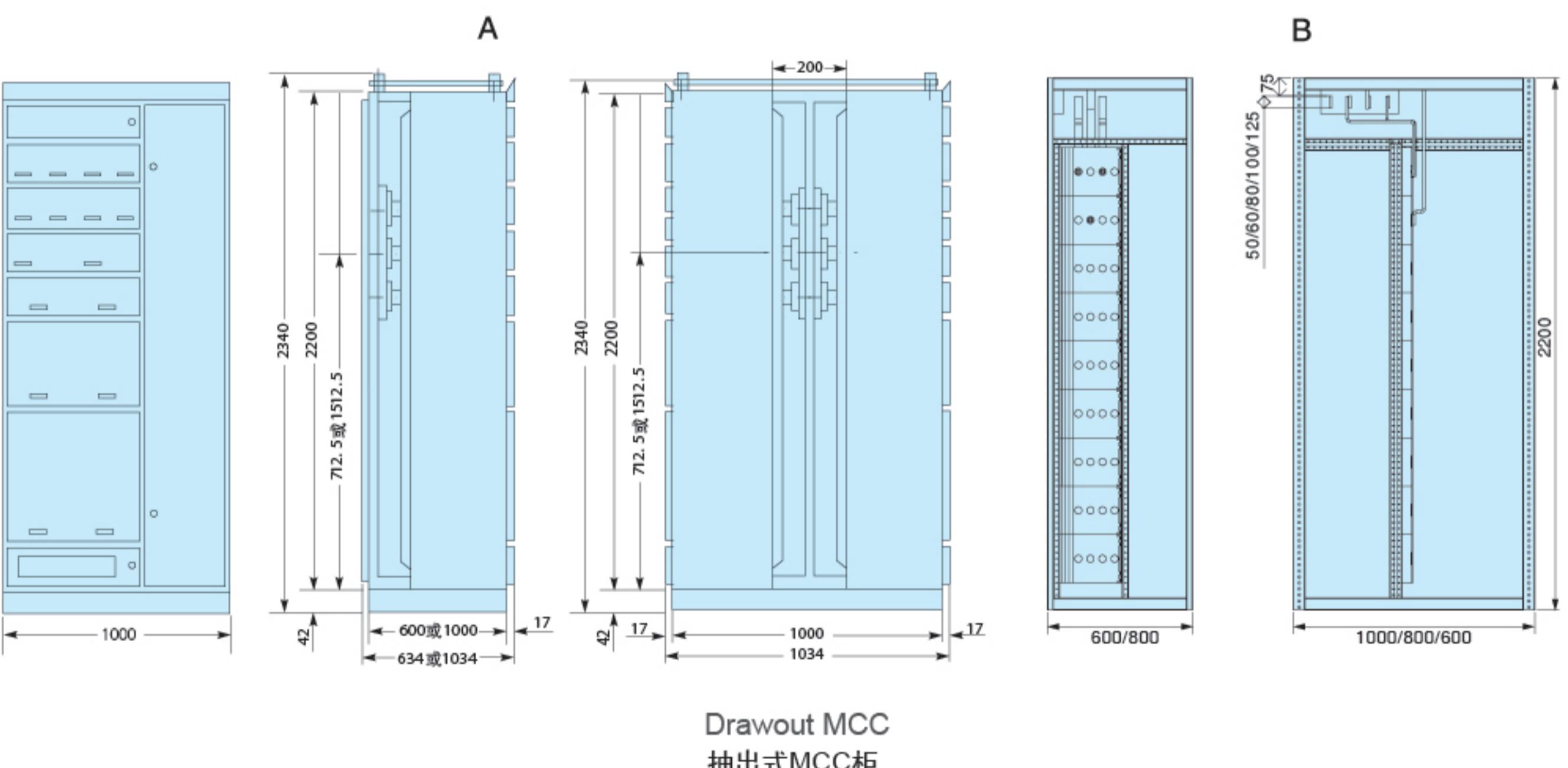
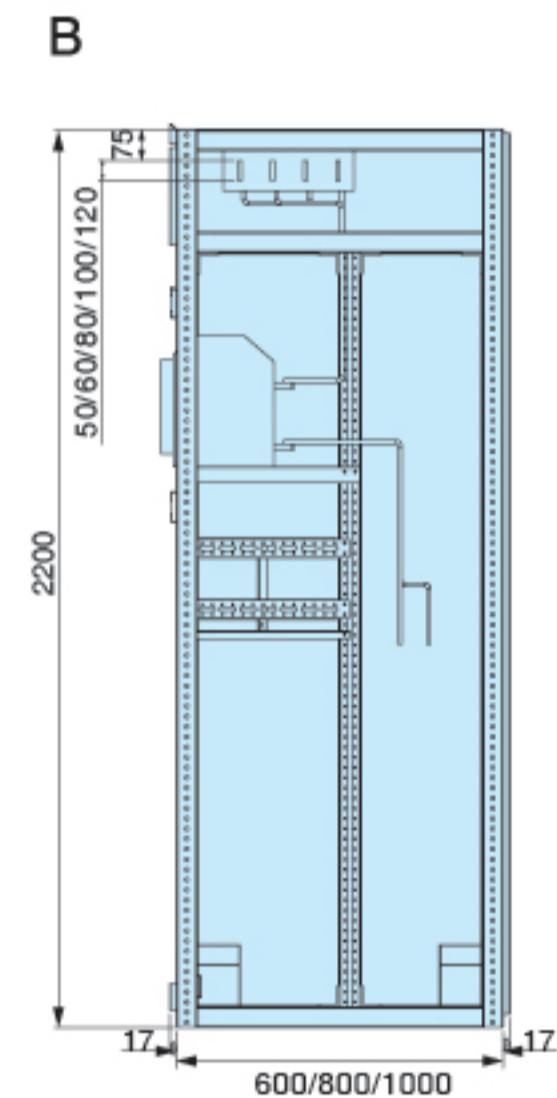
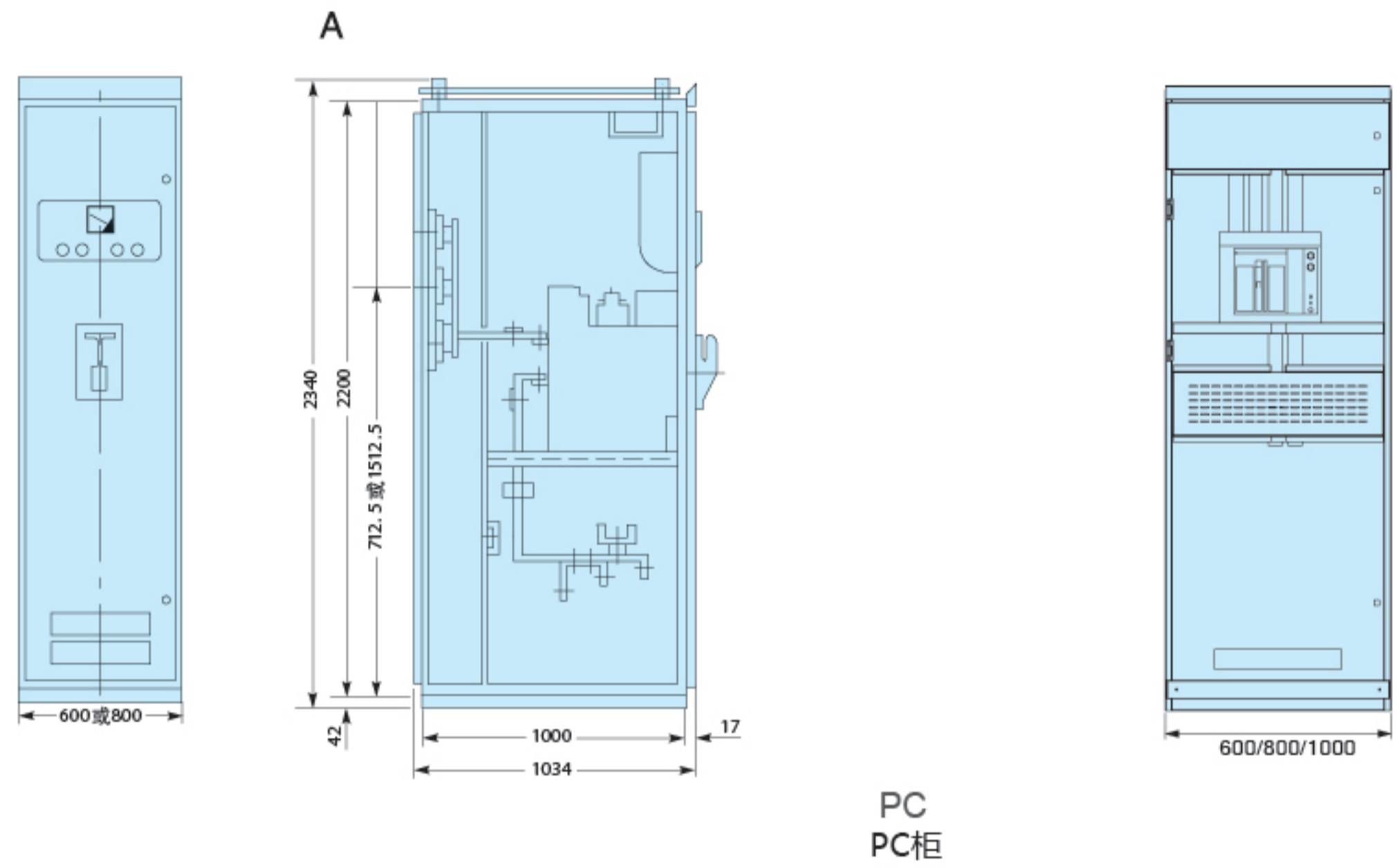
16E



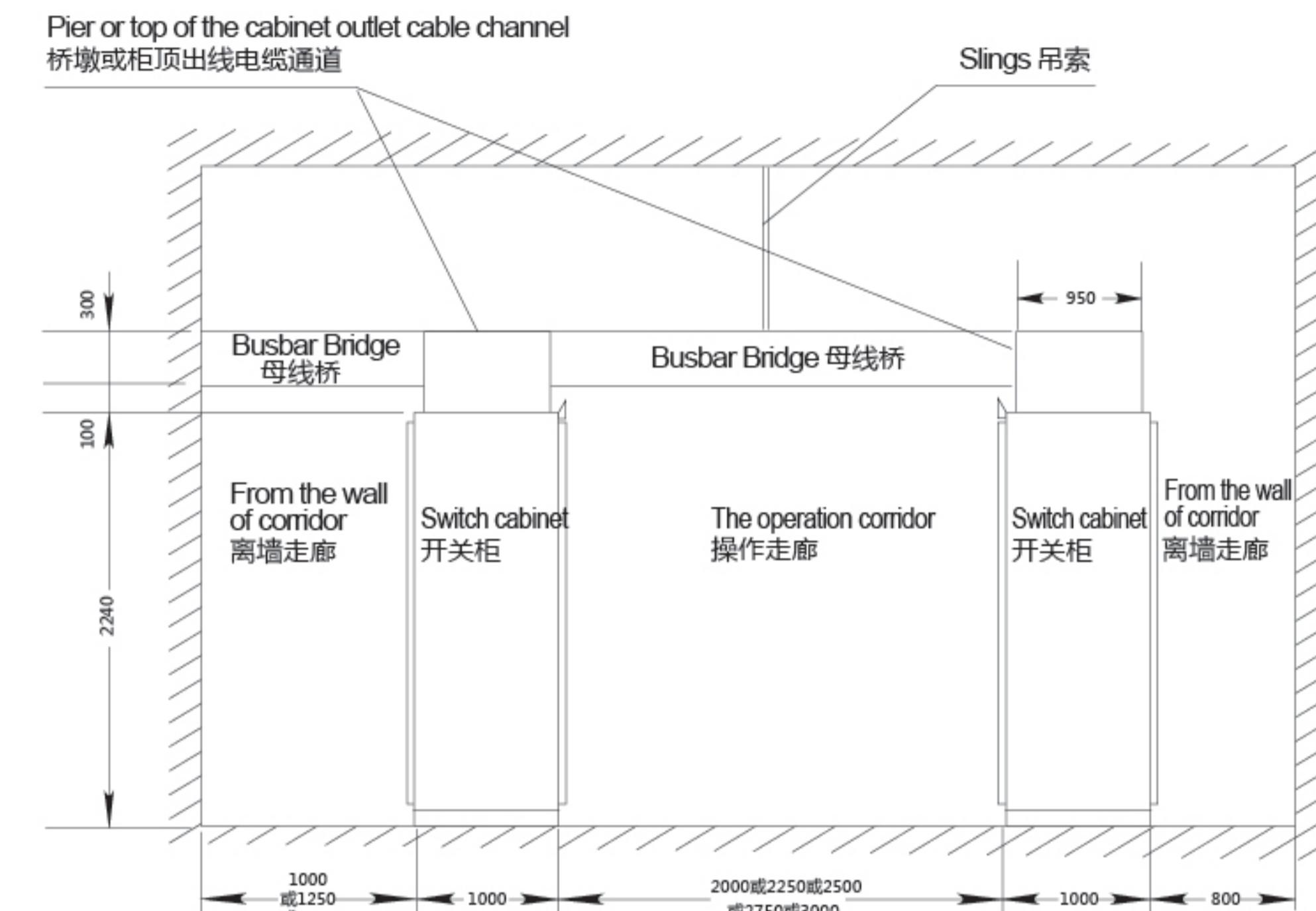
24E

Dimensions and installation (Standard Type) 尺寸和安装（标准型）

Dimensions 尺寸

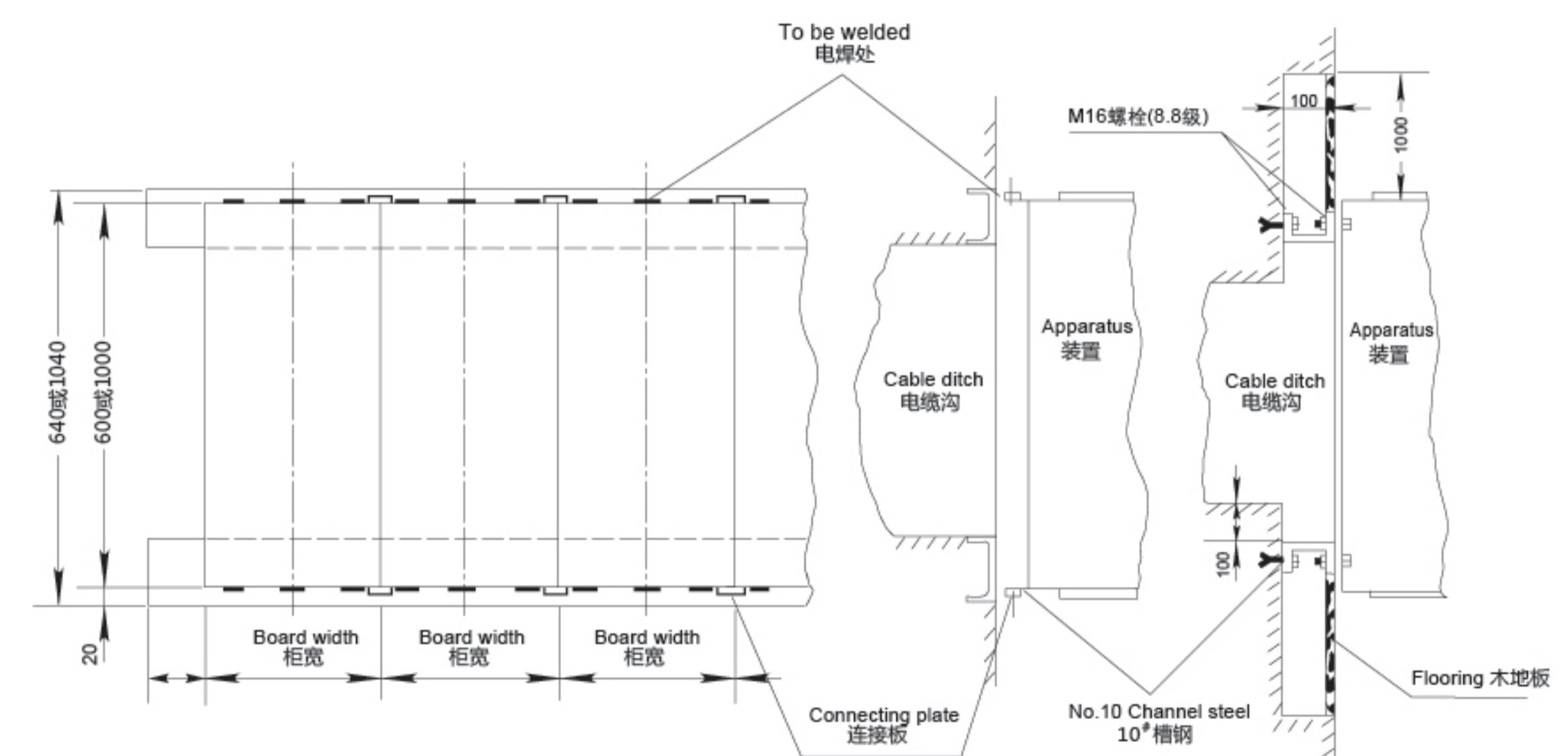


Scheme of Installation (Standard Type) 安装示意图（标准型）



The manufacturer may supply a variety of busbar bridges according to the requirements of the customers
制造厂可根据用户要求提供各种形式的母线桥

Diagram for Busbar Bridge Scheme of Installation
母线桥安装示意图



A welding installation scheme
方案一 焊接安装

Two bolt installation plan
方案二 螺栓安装

Scheme of Installation
安装示意图