

综合配电箱(动力/ 补偿/控制/终端/照明)

Integrated Distribution Box (power/ Compensation/ Control/ Terminal/ Illumination)



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概述 General

JP 系列户外综合配电箱,是集计量、出线、无功补偿等多功能于一体达到户外综合配电装置,具有短路、过载、过电压、漏电保护等功能,体积小、外型美观、经济实用,安装于户外柱上变压器的电杆上,是城乡电网改造的新一代理想配电产品。

JP series outdoor integrated distribution box concentrates the functions of measuring, outlet wiring, reactive compensation etc. to an integrated box to protect short circuit, overload, over voltage, electricity leakage etc with small size, beautiful appearance and economical usage. It is installed on the pole which is also for installing the outdoor pole type transformers. It is an ideal distribution product for urban and rural power grid renovation.

型号含义 Type Designation



结构特点 Structure Features

箱体结构分立式和卧式,外壳采用 2mm 优质不锈钢板经多重折边工艺弯制 (或采用蜂窝结构的不锈钢双夹层复合板,具有阻燃、环保、隔热、防凝露等性能),采用特殊不锈钢焊接工艺,箱体成型后整体强度高,表面光洁如镜,不留焊缝痕迹;内部安装梁 (板) 为热镀锌工艺处理,确保二十年内不锈蚀;箱体前后开门,便于用户操作和检修,门四周镶有高弹力耐老化密封胶条,每扇门均装有明暗两种门锁,明锁配有防堵防锈的遮雨罩;计量室全封闭带铅封装置;箱体侧面装有防雨防异物的进线电缆穿管,底部冲有通风孔和电缆出线孔,顶部设有通风道和丝网,具有防水、防锈、防尘、防异物的功能,防护等级: IP54。

The box has two types---horizontal type and vertical type. The shell of the box uses 2mm high quality stainless steel plate bending by the multiple folding craft (or cellular structural stainless steel double composite panels with flame retardant, environmental protection, thermal insulation, condensation prevention etc. performances) through special stainless steel welding technology. After shaping up, the surface of the box is bright and clean as a mirror without any trace of welding. Internal box installs hot galvanizing processed beam (plate) to ensure that 20 years does not rust. The box can be open in both front and back sides for convenient operation and maintenance. High elastic aging resistance sealing strip is edged around the door. There are two kinds of locks for every door---obvious lock and secret lock. Obvious lock is equipped with rain shield to prevent block and rust. Measuring compartment is a fully lead sealed device. At the side of the box, there are inlet cable channels with rain prevention and foreign matter prevention. At the bottom of the box, there are air hole and outlet cable hole. At the top of the box, there are ventilation channel and silk screen with the functions of waterproof, antirust, dust prevention, foreign matter prevention. Its protection degree is IP54.

正常使用条件 Working Conditions

- ◆ 环境温度: $-25^{\circ}\text{C} \sim +40^{\circ}\text{C}$ 。
Ambient temperature: $-25^{\circ}\text{C} \sim +40^{\circ}\text{C}$
- ◆ 空气相对湿度: 日平均值不大于 90%, 月平均值不大于 90%。
Humidity: daily average $\leq 95\%$, monthly average $\leq 90\%$
- ◆ 海拔高度: 不大于 2000m。
Altitude: $\leq 2000\text{m}$
- ◆ 安装在无剧烈震动和冲击、无腐蚀性气体的场所。
It is applicable in the place without violent vibration and corrosive gas.

主要技术参数 Specification

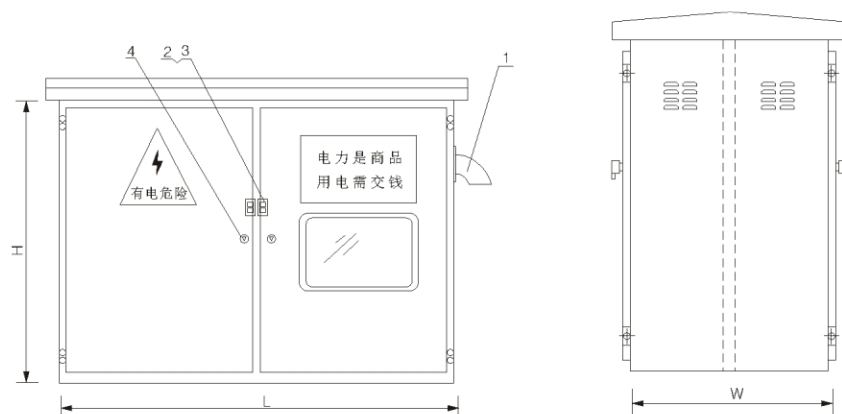
名称 Item	单位 Unit	参数 Data
变压器容量 Transformer Capacity	kVA	30-400
额定工作电压 Rated Working Voltage	V	AC400
辅助回路工作电压 Working Voltage of Auxiliary Loop	V	AC220, AC380
额定频率 Rated Frequency	Hz	50
额定电流 Rated Current	A	≤ 630
额定漏电动作电流 Rated Action Current of Electricity Leakage	mA	30~300 可调 30~300 adjustable
防护等级 Protection Degree		IP54



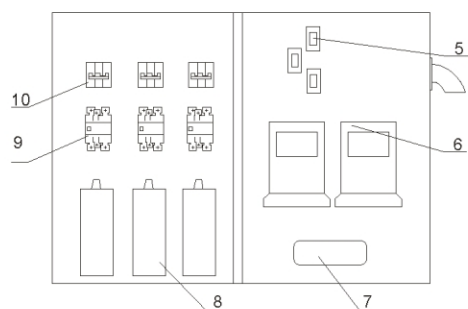
主回路方案图 Main Loop Scheme

方案号 Scheme No.	01	02	03	04	05
主回路单线图 Single Wiring Chart of Mian Loop					
说明 illustration	总计量 / 一回出线 / 漏保 General Metering/ First Loop Outlet Cable/ Electricity Leakage Protection	总计量 / 总漏保 / 二回出线 General Metering/ General Electricity Leakage Protection/ Second Loop Outlet Cable	总计量 / 总漏保 / 三回出线 General Metering/ General Electricity Leakage Protection/ Third Loop Outlet Cable	总计量 / 二回出线 / 分支漏保 General Metering/ Second Loop Outlet Cable/ Branched Electricity Leakage Protection	总计量 / 三回出线 / 分支漏保 General Metering/ Third Loop Outlet Cable/ Branched Electricity Leakage Protection
方案号 Scheme No.	06	07	08	09	10
主回路单线图 Single Wiring Chart of Mian Loop					
说明 illustration	总计量 / 二回出线 / 漏保带补偿 General Metering/ First Loop Outlet Cable/ Electricity Leakage Protection/ Compensation	总计量 / 总漏保 / 二回出线 / 带补偿 General Metering/ General Electricity Leakage Protection/ Second Loop Outlet Cable/ Compensation	总计量 / 总漏保 / 三回出线 / 带补偿 General Metering/ General Electricity Leakage Protection/ Third Loop Outlet Cable/ Compensation	总计量 / 二回出线 / 分支漏保 / 带补偿 General Metering/ Second Loop Outlet Cable/ Branched Electricity Leakage Protection/ Compensation	总计量三回出线 / 分支漏保 / 带补偿 General Metering/ Third Loop Outlet Cable/ Branched Electricity Leakage Protection/ Compensation

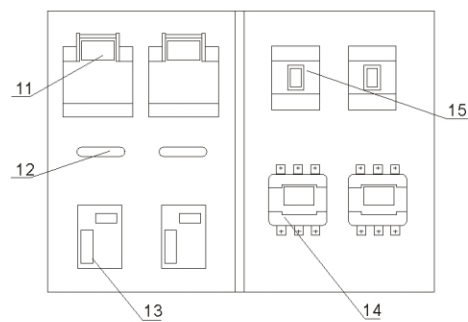
箱体结构示意图 Structure Sketch Map of Box



- 1、进线电缆穿管 Inlet Cable Channel
- 2、门锁 (明锁) Door Lock (Obvious Lock)
- 3、门锁防水盒 Lock Waterproof Box
- 4、门锁 (暗锁) Door Lock (Secret Lock)



内部元件布置 (正面)
Inner Arrangement of Components (Front)



内部元件布置 (背面)
Inner Arrangement of Components (Back)

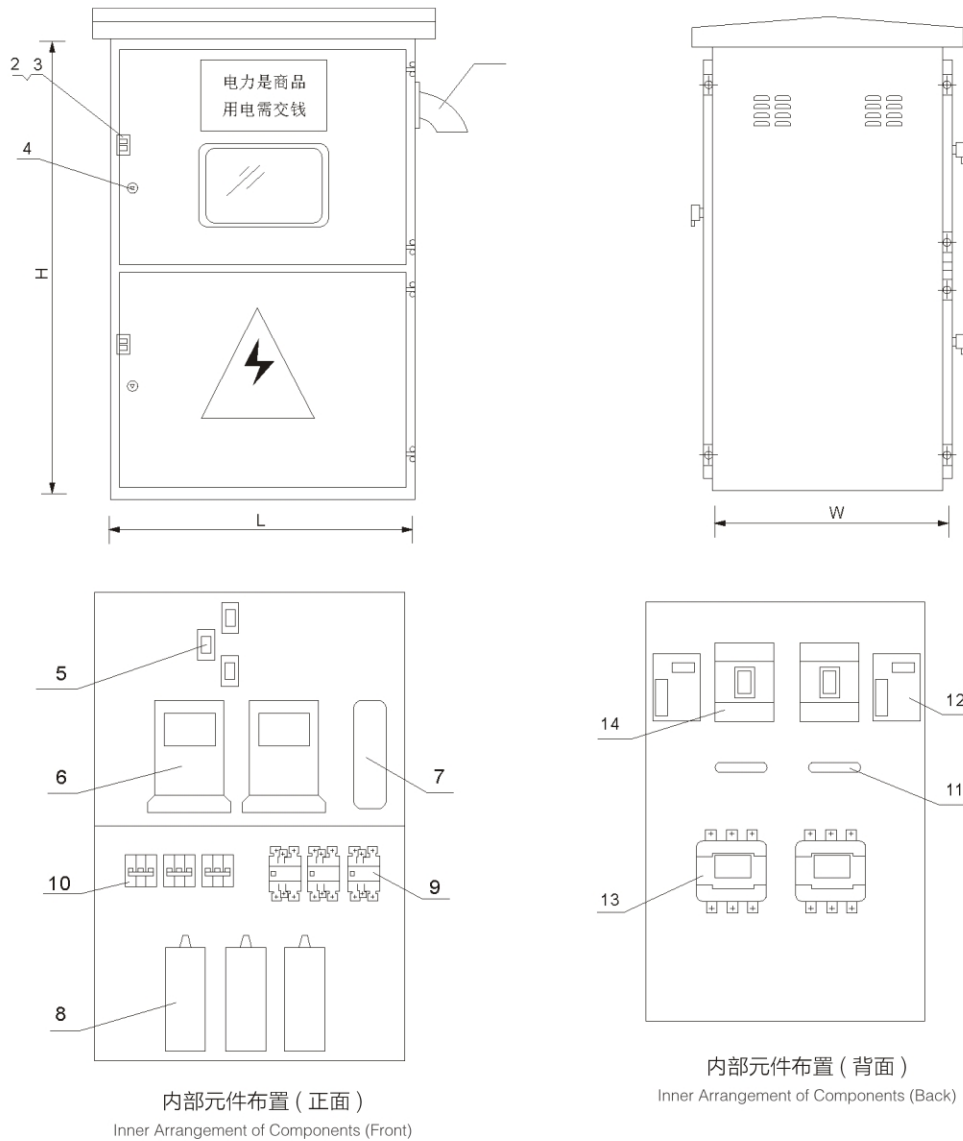
- 5、电流互感器 Current Transformer
- 6、计量表 Meter
- 7、接线盒 Terminal Box
- 8、电容器 Capacitor
- 9、切换电容接触器 Capacity Switch Contactor
- 10、小型断路器 Miniature Circuit Breaker

- 11、隔离开关 Isolation Switch
- 12、零序互感器 Zero Sequence Mutual Inductor
- 13、漏电继电器 Electricity Leakage Relay
- 14、出线交流接触器 Outlet Contactor
- 15、出线空气开关 Outlet Air Switch

图一：户外箱结构示意图 (卧式)

Picture 1: Structure Sketch Map of Outdoor Box (Horizontal Type)

箱体结构示意图 Structure Sketch Map of Box



- 1、进线电缆穿管 Inlet Cable Channel
- 2、门锁 (明锁) Door Lock (Obvious Lock)
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- 5、电流互感器 Current Transformer
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- 14、出线空气开关 Outlet Air Switch

图二：户外箱结构示意图 (立式)

Picture 2: Structure Sketch Map of Outdoor Box (Vertical Type)

箱体外形尺寸 Dimensions of the Box

卧式箱体外形尺寸 Dimensions of Horizontal Type Box

变压器容量 Transformer Capacity	方案号 Scheme No.	L	W	H
30~100kVA	01、06	800	450	700
30~250kVA	02、04、07、09	900	500	700
100~400kVA	03、05、08、10	1100	600	800

立式箱体外形尺寸 Dimensions of Vertical Type Box

变压器容量 Transformer Capacity	方案号 Scheme No.	L	W	H
30~100kVA	01、06	600	450	1000
30~250kVA	02、04、07、09	700	500	1000
100~400kVA	03、05、08、10	800	600	1100

以上尺寸仅供参考 Dimensions above are just for reference.

订货须知 Ordering Information

- ◆ 产品型号、数量。
Model and quantity;
- ◆ 产品结构型式 (立式、卧式)。
Structure type (vertical or horizontal);
- ◆ 主要元器件的型号、技术参数。
Model and datas of the main components;
- ◆ 其它特殊要求。
Other special requirements.



JN-1



JN-2



JN-3