

Product Overview

YBF-35 wind power station box type substation (hereinafter referred to as box transformer) is a specialized equipment that increases the voltage of 0.6-0.69kV generated by wind turbines to 35kV and connects it to the grid for output

This product is a new product developed by our company to meet the requirements of large single unit capacity and high protection for offshore wind power plants.

Product Model Description

产品型号说明

YB F □ - 40.5 / 0.69 - □

① ② ③ ④ ⑤ ⑥

①	预装式变电站
②	风力发电用
③	设计序号
④	高压侧额定电压
⑤	低压侧额定电压
⑥	变压器容量

Usage conditions

Altitude: not exceeding 1000m

Environmental temperature: -40 °C~+45 °C

Relative humidity: The daily average is not greater than 95%, and the monthly average is not greater than 90%

Installation location: a place without fire, explosion hazards, conductive dust, chemical corrosive gases, and severe vibrations

Note: If ordering this product exceeds the above conditions, please consult with our company

Main features

High voltage switchgear, transformers, and low-voltage switchgear are integrated into one, with strong completeness; Low damage, low noise, superior performance, the box adopts anti-theft structure

Complete high and low voltage protection, safe and reliable operation, simple maintenance, and flexible and diverse connection schemes

High voltage is generally protected by a load switch fuse combination electrical device. After one phase of the fuse is blown, the three phases are interlocked and tripped. The load switch has vacuum, sulfur hexafluoride and other types to choose from, and can be equipped with an electric operating mechanism to achieve automation upgrade; The fuse is a high-voltage current limiting fuse with an impactor, which operates reliably and has a large breaking capacity. It is recommended to use vacuum load switch products for high-voltage load switches. The spring operated mechanism adopts AC220V operation and can be equipped with box transformer protection devices and light and heavy gas interfaces; And provide fuses according to the transformer capacity, with lightning arresters and live display devices. There is a reliable mechanical interlock between the vacuum arc extinguishing chamber, isolation switch, and grounding switch of the composite electrical device. Only when the vacuum arc extinguishing chamber is in the open state can the isolation switch and grounding switch be operated, and the isolation switch and grounding switch are linked. The tripping device of the fuse is a three pole linkage, and the fuse used is a firing pin fuse. The impactor can directly disconnect the load switch, ensuring that the fault can be quickly cut off

The low-voltage side main switch adopts universal or intelligent circuit breakers for selective protection

Select low loss, oil immersed, fully sealed S9, S10, S11 series transformers, or environmentally friendly dry-type transformers with resin insulation or NOMEX insulation. The bottom is equipped with a small car, and the transformer can be easily accessed and exited

The shell material adopts non-metallic environmentally friendly box body, which is corrosion-resistant and salt spray resistant. Composite plates, stainless steel plates, etc. can also be used

The transformer box can add operation corridors on the high and low voltage sides according to user requirements

Technical Parameters

The number and orientation of pre embedded cables in the foundation are determined by the user based on the number and orientation of cables

All embedded iron components and supporting components within the foundation should be grounded

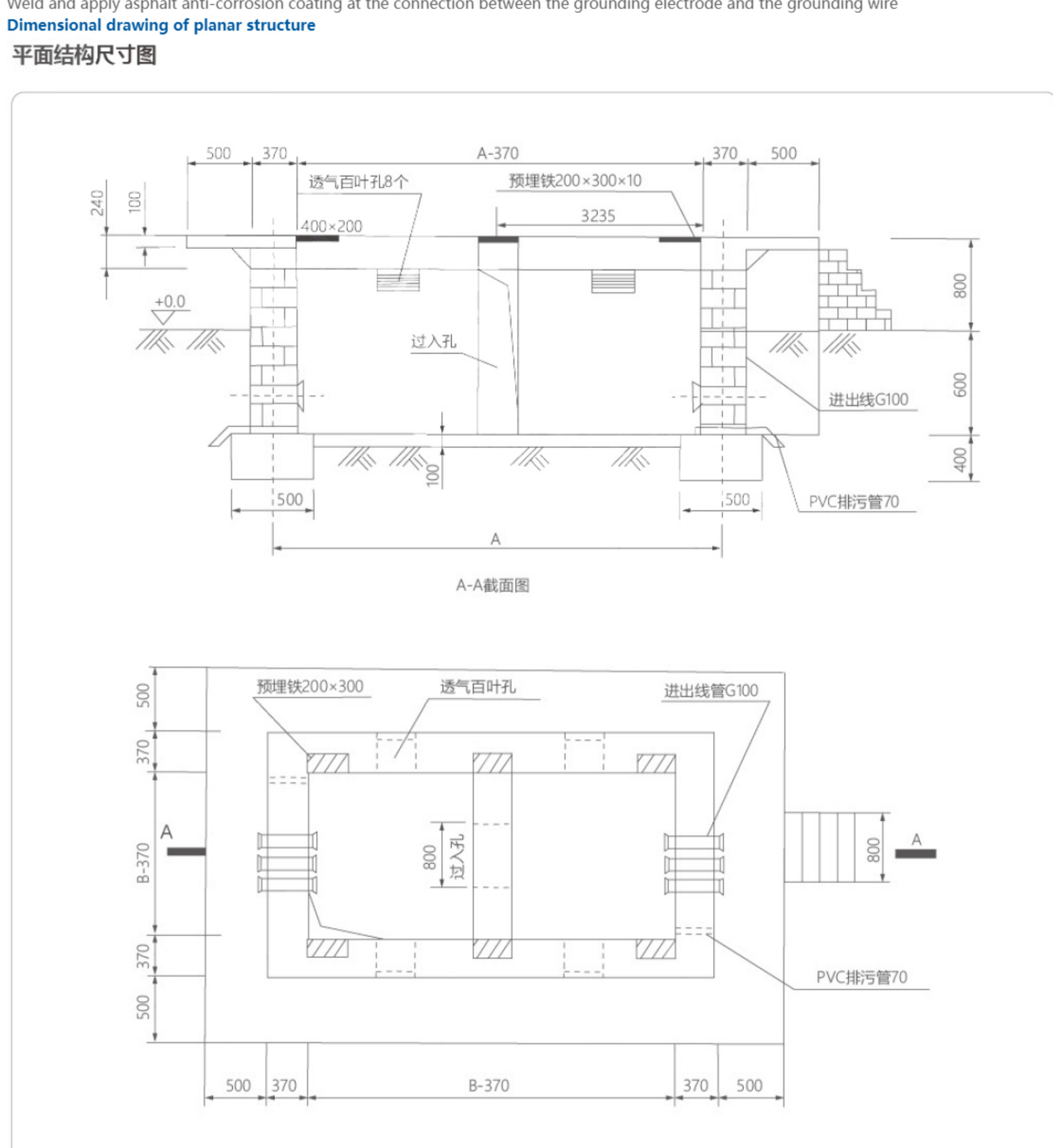
The number of grounding rods is determined by the soil conditions, and it is necessary to protect the grounding resistance to be less than 4 Ω

The grounding wire can be made of 40x4 galvanized flat steel, and the grounding wire can be made of 5 # angle steel

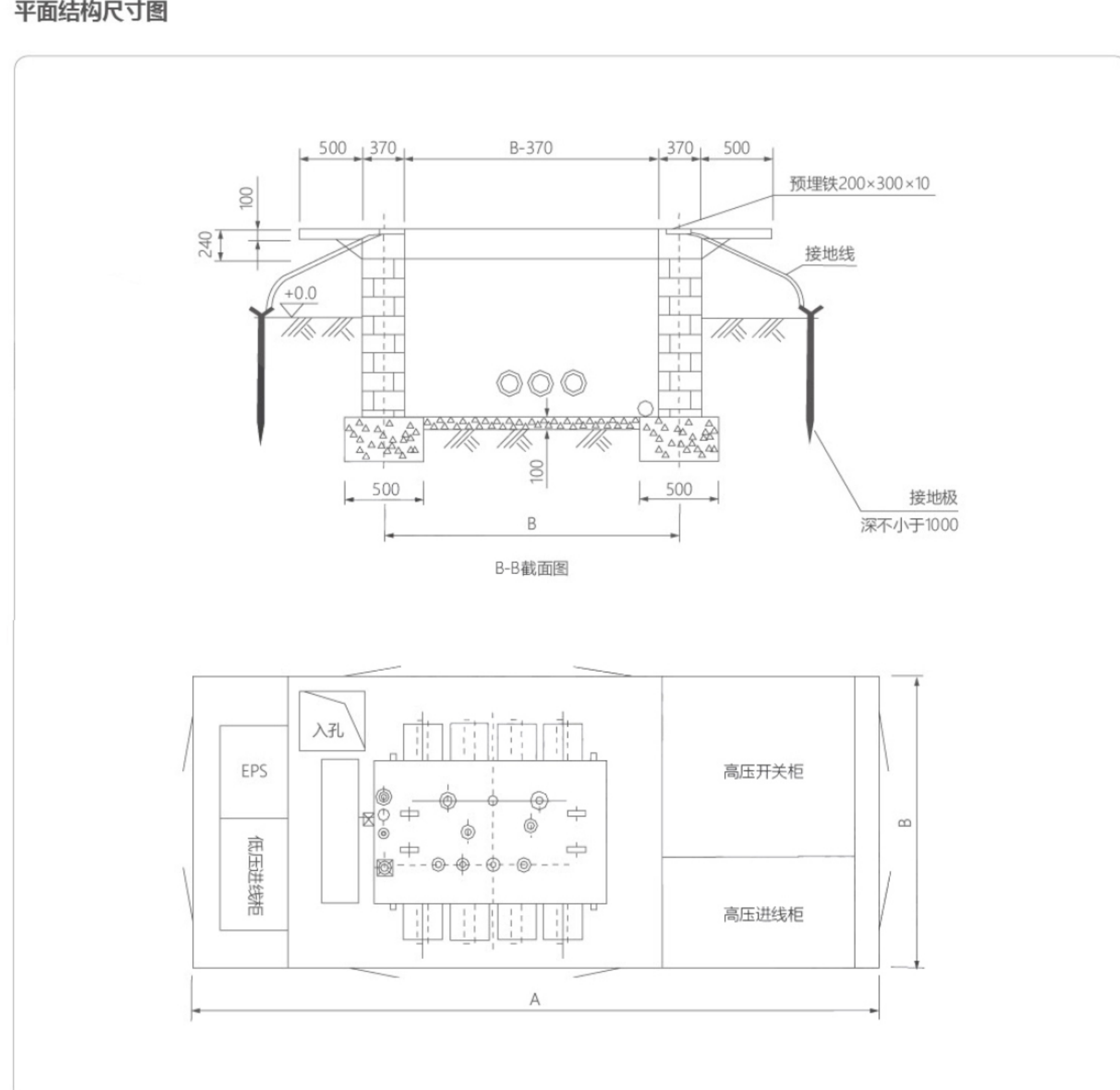
Weld and apply asphalt anti-corrosion coating at the connection between the grounding electrode and the grounding wire

Dimensional drawing of planar structure

平面结构尺寸图



平面结构尺寸图



Ordering Notice

The following information should be provided when placing an order:

The full range of product models includes the main circuit scheme number and the auxiliary circuit scheme number

Main circuit system combination sequence diagram

Installation layout plan

Electrical schematic diagram of auxiliary circuit

Setting parameters such as voltage, current, and time in the circuit

Negotiate with the manufacturer to resolve any other special requirements that do not comply with the normal use of the product