



## 高低压成套产品 High and low voltage complete sets of products

### YB预装箱式变电站（欧式箱变）

#### 01 Product introduction

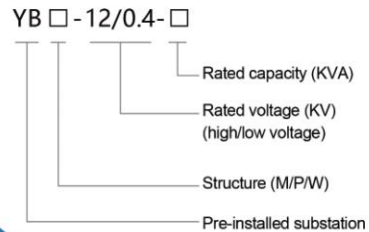
YB type box substation, also known as European box transformer, as a new type of power supply and distribution device, box transformer to complete the transformation of electric energy, distribution, transmission, measurement, compensation, system control, protection and communication functions.

Compared with the traditional civil substation, it has many advantages: because of the small area, compact structure, easy to move, greatly shorten the period and area of construction, and reduce the cost of construction. At the same time, the box-type substation is simple to install on site, fast power supply, simple equipment maintenance, no need for special duty, especially it can go deep into the load center, improve the quality of power supply and reduce power loss. Enhanced power supply reliability.



YB type substation is composed of high voltage switchgear, distribution transformer, low voltage distribution equipment and shell. The high voltage is air load switch, and the transformer is dry type or oil immersed type. The box adopts a good heat insulation ventilation structure, beautiful appearance, good heat insulation performance, and the box is provided with upper and lower ventilation duct, the temperature rise caused by outdoor radiation can be reduced to the minimum, the box is equipped with temperature control forced ventilation device and temperature automatic control device. Each individual unit is equipped with complete control, protection, live display and lighting systems.

#### 02 Type description



#### 03 Conditions of use

- (1) Altitude: less than 1000m;
- (2) ambient temperature;
  - 1) Maximum not exceeding +40°C;
  - 2) Minimum not less than 25°C
  - 3) The average temperature in a 24-hour period does not exceed +35°C
- (3) The horizontal acceleration of the earthquake is not more than 0.4m/s<sup>2</sup>, and the vertical acceleration is not more than 0.2m/s<sup>2</sup>.
- (4) No violent vibration and shock and dangerous places.

#### 04 Technical parameter

YB pre-loaded box-type substation (European box-type transformer) technical parameter table

ID	Item	Unit	High voltage electrical apparatus	Transformer	Low-voltage electrical apparatus
1	Rated voltage	KV	6; 10	6/0.4; 10/0.4	0.4
2	Rated capacity	KVA		I 型200~1250 II 型50~400	
3	Rated current	A	630		100~2000
4	Rated breaking current	A KA	Load switch 630A Combined appliances depend on the fuse		15~63
5	Rated short-time withstand current	KA	20×2 12.5×4	200~400KVA >400KVA	15×1 30×1
6	Rated peak withstand current	KA	31.5; 50	200~400KVA >400KVA	30 63
7	Rated closing current	KA	31.5; 50		
8	Power frequency withstand voltage (1min)	KV	Relative to each other Isolation fracture	oil-immersed 35 dry-type 28	≤300V, 2 >300V, 2.5
9	Lightning impulse withstand voltage (峰值)	KV	Relative to each other Isolation fracture	75	
10	Case protection class		IP3X	IP2X	IP30
11	Noise level	dB		oil-immersed <55 dry-type <65	

Note: When the transformer capacity is less than 200KVA, items 5 and 6 are not required.

#### 05 Project case

