



科迅安电气
KE XUN AN DIAN QI

系列光伏升压变电站

Photovoltaic local
Step-up substation

Photovoltaic power generation, as a clean energy production mode, has developed rapidly at home and abroad. It has made a great contribution to achieving carbon neutrality and reducing the pressure on energy imports. YBW series photovoltaic booster substation is to meet the growing demand for photovoltaic power generation, mostly used in industrial and commercial distributed photovoltaic power stations and centralized power stations. Under the premise of meeting various standards, the 10KV and 35KV European combined photovoltaic substations produced by our company have been optimized and upgraded to meet the needs of power generation boost in various scenarios. It has the advantages of small volume, high strength, easy installation and easy maintenance.

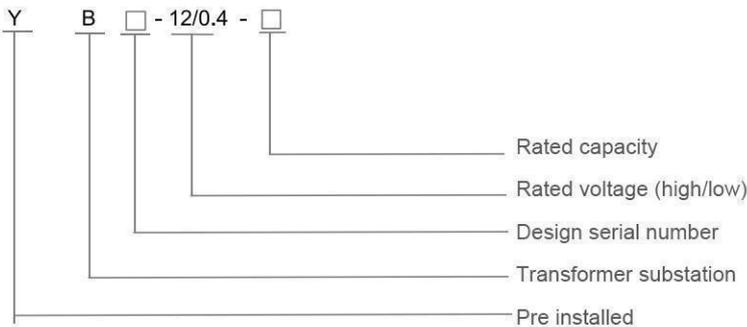


YBW 系列光伏升压变电站

YBW series photovoltaic step-up substation



型号含义 Type meaning



光伏升压变符合下列标准 The photovoltaic step-up transformer meets the following standards

- GB1094. 1-1996 《Power Transformers Part 1: General Provisions》
- GB1094. 2-1996 《Power Transformers Part 2: Temperature Rise》
- GB1094. 3-2003 《Power transformers - Part 3: Insulation levels, insulation tests, and external insulation air gaps》
- GB1094. 5-2008 《Power Transformers Part 5: Ability to withstand short circuits》
- GB/T11022-1999 《Common technical conditions for high-voltage switchgear and control equipment standards》
- GB14048. 1-2005 《Low voltage complete sets of equipment and control equipment - Part 1: General principles》
- GB50150-2006 《Standard for Electrical Equipment Handover Test in Electrical Equipment Installation Engineering》
- JB/T10217-2000 《Combination Transformer》

使用环境 Usage environment

- ◆ Posters shall not exceed 3000m;
- ◆ The ambient temperature range is $-40\text{ }^{\circ}\text{C}\sim+45\text{ }^{\circ}\text{C}$;
- ◆ Outdoor wind speed does not exceed 30m/s;
- ◆ Relative temperature: daily average not exceeding 95%, monthly average not exceeding 90%;
- ◆ The waveform of the power supply voltage is approximately sinusoidal, and the three-phase power supply voltage is approximately symmetrical;
- ◆ Installation location: Install in a place without fire, explosion hazard, severe pollution, chemical corrosion, and severe vibration.

Note: If the above normal usage environment conditions are exceeded, users can coordinate with our company to solve the problem.

技术参数 Technical parameter

- ◆ Rated voltage levels: 35KV and 10KV and below: insulation registration and level (see table below).

Voltage registration (kV)	Maximum voltage effective value of equipment (kV)	Effective value of rated short-term power frequency withstand voltage (kV)	Rated lightning impulse withstand voltage full wave peak value(kv)
≤ 1	≤ 1.1	5	
10	12	35	75
35	40.5	85	200