Power Isolation Transformer 电源隔离变压器

Product Profile 产品简介

Isolation transformer windings refers to the input and output winding with electrical isolation transformers, isolation transformer to avoid accidentally hit at the same time electric transformer isolated is the former view edge coil current. Isolation transformer used in electric power industry in European countries, being widely used in industrial and mining enterprises, machine tools and machinery and equipment in general circuit of control power, security lighting and the power of the light.

产品参数

- 次级电压: 208V/240V/250V/110V
- 标准: 按照En61558-2-6标准
- 夹紧强度: 3600V（初级与次级之间）
- 1800V（初级与主之间）
- 防护等级: IP00
- 频率: 50/60Hz
- 连接: 紧固螺栓固定
- 双线线定级: 通过DIN41307角度
- 铜板: 铜板镀锡 铜板/铜板（电流限制）

Selection Table

<table>
<thead>
<tr>
<th>Single-Phase Transformer Type</th>
<th>Price</th>
<th>Primary Voltage</th>
<th>Secondary Voltage</th>
<th>Insulation Class</th>
<th>Weight</th>
<th>Dimension (WxHxD)(mm)</th>
<th>Rated Model</th>
<th>With Discharge Coil</th>
</tr>
</thead>
<tbody>
<tr>
<td>SKS-OCH-1780B5</td>
<td>1500</td>
<td>480/460/440/420/415/400V</td>
<td>208/240/250/110V</td>
<td>F/H</td>
<td>4.8</td>
<td>114 W 125 W 85 W</td>
<td>SKS-OCH-1780B5</td>
<td>√</td>
</tr>
<tr>
<td>SKS-OCH-2880B5</td>
<td>2500</td>
<td>480/460/440/420/415/400V</td>
<td>208/240/250/110V</td>
<td>F/H</td>
<td>4.8</td>
<td>114 W 125 W 85 W</td>
<td>SKS-OCH-2880B5</td>
<td>√</td>
</tr>
<tr>
<td>SKS-OCH-5880B5</td>
<td>5500</td>
<td>480/460/440/420/415/400V</td>
<td>208/240/250/110V</td>
<td>F/H</td>
<td>4.8</td>
<td>114 W 125 W 85 W</td>
<td>SKS-OCH-5880B5</td>
<td>√</td>
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<tr>
<td>SKS-OCH-6880B5</td>
<td>6500</td>
<td>480/460/440/420/415/400V</td>
<td>208/240/250/110V</td>
<td>F/H</td>
<td>4.8</td>
<td>114 W 125 W 85 W</td>
<td>SKS-OCH-6880B5</td>
<td>√</td>
</tr>
</tbody>
</table>

Note: Custom products, detailed information please consult factory, ±10% is standard, ±5% is optional.

Product Size 产品尺寸图

图片A、图片B、图片C、图片D、图片E
Photovoltaic Isolation Transformer/Reactor
光伏隔离变压器/电抗器

Product Profile 产品简介

Because of the particularity of photovoltaic power generation, large-scale investment of photovoltaic grid-connected system will certainly bring the power grid problems through reliability and stability, for example: harmonic, flickering, DC magnetic bias, over voltage and so on. So it is very necessary to find out a right solution to solve the above problem. One simple and effective way is using isolation transformer between power grid and grid-connected inverter which can isolated inverter and get the power back to grid.

由于光伏发电的特性，光伏电网系统大规模的投入势必会对电网的可靠性和稳定性带来危害，如：谐波、闪变、直流偏磁、过电压等，因此有必要研究合适的方案来解决上述问题。一种简单有效的方法是在电网和并网逆变器之间加入隔离变压器，将隔离逆变器和电网隔离回电网的作用。

Product Features 产品特点

- Standard capacity: 50KVA, 100KVA, 250KVA, 500KVA.
- Impedance 3-5%, efficiency > 98%, overload capacity 15%.
- Electric intensity AC3000V/min, leakage current < 5mA.
- Under rated power, winding temperature-rise F, less than 100K, insulation system H.
- High quality silicon steel sheet iron core, which achieves low no-load loss and noise. Enamelled rectangular wire for small capacity, aluminum foil for large capacity, producing with vacuum pressure Impregnation which makes our transformer high mechanical strength and moistureproof ability.

- 标准容量：50KVA, 100KVA, 250KVA, 500KVA。
- 阻抗3-5%，效率大于98%，过载能力15%。
- 电强度AC3000V/min，漏电电流小于5mA。
- 额定功率下绕组温升F，不超过100K，绝缘系统H。
- 高质量硅钢片铁芯，实现低空载损耗和噪音。漆包矩形线用于小容量，铝箔用于大容量，采用真空压力浸渍，使变压器具有良好的机械强度和防潮能力。

Product Parameters 产品参数

- Enamel insulated aluminum wire, aluminum foil winding, Line tight, Craft neat and secure, Vacuum pressure Impregnation, Low noise.
- No load voltage 400V±2.5%, steady voltage 400V±2%, imbalance < 0.5%.
- Rated voltage 400V±3%, steady voltage 400V±2%, imbalance < 0.5%.
- Connection method Dyn11, Insulation grade H.
- Zero-sequence impedance three-phase imbalance 9%, hottest spot in coil<110K.
- Maximum efficiency > 98%, short circuit impedance 2% - 4%, no-load current < 5%, noise<70dB.
- Insulation resistance>1000MO, dielectric strength, primary-secondary, ground 3KV/1Min, primary-secondary-ground 3KV/1Min, No arcing reakage.

Product Size 产品尺寸图

[Diagram of product size]
### Photovoltaic Isolation Transformer/Reactor

#### Selection Table

<table>
<thead>
<tr>
<th>Model Code</th>
<th>Description</th>
<th>Voltage (V)</th>
<th>Current (A)</th>
<th>Dimensions (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SKS-SSG1-500/10</td>
<td>500/10 kVA</td>
<td>500/10</td>
<td>5</td>
<td>126 x 156 x 160</td>
</tr>
<tr>
<td>SKS-SSG1-1000/20</td>
<td>1000/20 kVA</td>
<td>1000/20</td>
<td>10</td>
<td>256 x 259 x 259</td>
</tr>
</tbody>
</table>

### Waterproof Transformer

#### Product Profile

1. How to connect the transformer depends on your actual circuit structure, please confirm it with your engineer after analyze your project.
2. The transformer can be used during the frequency range of 47.5 - 52.5Hz.
3. Under 50Hz sine-wave voltage, rated load, 120°C, the transformers efficiency would be up to 98 - 99%.
4. In the normal air environment, 50Hz with rated load, the temperature-rise of winding is less than 65K, so it will much less than this number when under water.
5. At the minimum voltage 215 V, the transformer will rise more than 65K, but we think it will not reach the maximum permissible temperature-rise (100K), so it's still safe for the transformer, please confirm it in your test.
6. After 8 hours completely submerged in water, we tested the transformer with 50Hz AC 3000V/1min, the leak current is less than 3mA.
7. Protection grade IP67.
8. Our transformer is design, produce and test according to the standard of The People's Republic of China: GB1094.11-2007 (Dry type transformer).

#### Product Size

![Diagram A]

#### Selection Table

<table>
<thead>
<tr>
<th>Model Code</th>
<th>Description</th>
<th>Voltage (V)</th>
<th>Current (A)</th>
<th>Dimensions (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SKS-GB-500/25</td>
<td>500/25 kVA</td>
<td>500/25</td>
<td>500/25</td>
<td>126 x 156 x 160</td>
</tr>
<tr>
<td>SKS-GB-1000/40</td>
<td>1000/40 kVA</td>
<td>1000/40</td>
<td>1000/40</td>
<td>256 x 259 x 259</td>
</tr>
</tbody>
</table>

*Note: Custom products, detailed information please consult factory. V5 is a standard.*
Two-iron-core (High-impedance) Isolation Transformer

Product Profile 产品简介

The transformer and reactor become one with small structural volume, compact structure, safety and reliability, easy installation and maintenance, compared to separate transformer and reactor equipment. The weight, cost and dissipation of product reduce significantly and electricity efficiency improves because of the decrease in wire consumption. In addition, the inductance value can be made high enough to better meet the requirements of circuital filtering. Widely used for high-power UPS and accumulator high-frequency charging unit.

Product Parameters

- **Standard capacity**: 50kVA~350kVA
- **Connection method**: Dyn11, Yyn12
- **Impedance**: 12~30%
- **Efficiency**: ≥98%
- **Electric intensity**: AC 3000V/min, leakage current ≤5mA
- **Under rated power, winding temperature-rise**: F, less than 100K.

Product Size 产品尺寸图

Selection Table 选型表

<table>
<thead>
<tr>
<th>Model</th>
<th>Capacity</th>
<th>Voltage</th>
<th>Class</th>
<th>Weight</th>
<th>Dimension (LxWxH,mm)</th>
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</thead>
<tbody>
<tr>
<td>SKS-330/30A</td>
<td>330kVA</td>
<td>300/400/500V</td>
<td>F</td>
<td>470</td>
<td>816 x 504 x 270</td>
</tr>
<tr>
<td>SKS-240/45A</td>
<td>240kVA</td>
<td>380/400/500V</td>
<td>F</td>
<td>370</td>
<td>806 x 504 x 270</td>
</tr>
<tr>
<td>SKS-255/45A</td>
<td>255kVA</td>
<td>380/400/500V</td>
<td>F</td>
<td>408</td>
<td>806 x 504 x 270</td>
</tr>
</tbody>
</table>

Note: The above parameter is only for reference as typical data, customer-made is subject to customer's request.

ZSG Dry-type Rectifier Transformer

Product Profile 产品简介

ZSG series three phase dry transformer supply rectification equipment used to charge regulate voltage and DC power supply.

Industrial Standard:
- GB/T10236-1997 《干式电力变压器技术条件》
- GB6450-1986 《干式电力变压器》
- GB/T17211-1998 《干式变压器负载导则》
- IEC60076-11 《国际电工委员会标准干式电力变压器》

Product Features 产品特点

The characteristics of this series is low voltage, high current, wide conditions, suitable for chemical industry, metallurgy, traction, storage battery, electric lights and traffic trolley, etc. The impedance of the transformer is big enough, high secondary current, low voltage, can design according to customer's requirements and specifications.

Product Size 产品尺寸图

Note: The above parameter is only for reference as typical data, customer-made is subject to customer's request.
ZYG Dry-type Rectifier Transformer  ZYG 干式整流变压器

### Selection Table 选型表

<table>
<thead>
<tr>
<th>Model</th>
<th>Voltage Class (kV)</th>
<th>Current Rating (A)</th>
<th>Dimension (L×W×H) [mm]</th>
<th>Installation (L×W) [mm]</th>
<th>Weight (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ZYG-ZG-0600</td>
<td>6</td>
<td>600</td>
<td>890×600×600</td>
<td>890×600</td>
<td>450</td>
</tr>
<tr>
<td>ZYG-ZG-0800</td>
<td>8</td>
<td>800</td>
<td>1000×800×600</td>
<td>1000×800</td>
<td>550</td>
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<tr>
<td>ZYG-ZG-1200</td>
<td>12</td>
<td>1200</td>
<td>1200×900×600</td>
<td>1200×900</td>
<td>750</td>
</tr>
<tr>
<td>ZYG-ZG-1600</td>
<td>16</td>
<td>1600</td>
<td>1400×1000×600</td>
<td>1400×1000</td>
<td>1000</td>
</tr>
</tbody>
</table>

Note: The above parameter is only for reference as typical data. Customer-made is subject to customer's request.

### Product Profile 产品简述

Three phase dry-type phase-shifting Rectifier transformer is a special device mainly providing multi-phase rectification power for high voltage inverter. Using the extended triangle phase-shifting principle, through a number of different phase-shifting Angle secondary winding, can form the equivalent rectifier transformer for 9, 12, 18 and 27 phase. The primary side of transformer directly connects into the high voltage power grid, the second primary side has multiple three-phase winding, using 0°(60°-8°) to represent the extended triangle principle connecting the transformer secondary side’s low-voltage three-phase phase-winding. Also means the phase-shifting angle between low-voltage three-phase winding and third-class winding.

When each phase connected in series by many H bridge units, 0°-60°/8° makes the multiple input come into, and forms the 6n pulse wave rectifier. So that if every H bridge unit’s power is balanced and has the same power amplitude, theoretical there will be no any harmonics below 6n+1, and can improve the power factor, generally do not need to be equipped with reactive power compensation and harmonic filtering device. Very suitable for the environments with high fire prevention and big load fluctuation requirements, such as offshore oil platforms, power plant, water plant, metallurgy, chemical industry and mining building materials.

Three phase dry-type phase-shifting transformer is a special device mainly providing multi-phase rectification power for high voltage inverter. Using the extended triangle phase-shifting principle, through a number of different phase-shifting Angle secondary winding, can form the equivalent rectifier transformer for 9, 12, 18 and 27 phase. The primary side of transformer directly connects into the high voltage power grid, the second primary side has multiple three-phase winding, using 0°(60°-8°) to represent the extended triangle principle connecting the transformer secondary side’s low-voltage three-phase phase-winding. Also means the phase-shifting angle between low-voltage three-phase winding and third-class winding.

### Industrial Standard

- **IEC61729**
- **GB5065-1986**
- **GB/T10280-1997**
- **GB/T17211-1998**
- **GB/T10237-1998**
- **GB/T4207-1993**
- **GB/T4006-1998**
- **GB/T6009-1998**
- **GB/T636-1997**

### Product Characteristics

- High mechanical strength, safe and reliable operation.
- Low noise and small volume, installation friendly and maintenance free.
- High insulation and low partial discharge, long time life.
- Good humidity resistance and fireproofing.

- **Product Performance**
  - High mechanical strength, safe and reliable operation.
  - Low noise and small volume, installation friendly and maintenance free.
  - High insulation and low partial discharge, long time life.
  - Good humidity resistance and fireproofing.
### ZYSFG Phase-shifting Rectifier Transformer (Dedicated for High-voltage Inverter)

**Product Size 产品尺寸图**

<table>
<thead>
<tr>
<th>Model</th>
<th>2250</th>
<th>2500</th>
<th>2800</th>
<th>3150</th>
<th>4000</th>
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<tbody>
<tr>
<td>2470</td>
<td>2740</td>
<td>3000</td>
<td>3260</td>
<td>3780</td>
<td>4000</td>
</tr>
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<td>2700</td>
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<td>3230</td>
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<tr>
<td>3000</td>
<td>3270</td>
<td>3540</td>
<td>3800</td>
<td>4300</td>
<td>4500</td>
</tr>
<tr>
<td>3300</td>
<td>3570</td>
<td>3830</td>
<td>4090</td>
<td>4600</td>
<td>4800</td>
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<tr>
<td>3600</td>
<td>3870</td>
<td>4130</td>
<td>4390</td>
<td>4900</td>
<td>5100</td>
</tr>
</tbody>
</table>

### SC(B) Epoxy-resin filled Dry-type Electric Transformer

**Product Profile 产品简述**

- 它是安全、无污染和火焰防止的，可以在负载中心直接使用。它的优点是高可靠性和耐火性，适用于消防和电力系统。它被广泛应用于建筑物、商业中心、车站、机场等重要的公共设施。

**Industrial Standard 产品标准**

- GB/T 15029-1997 《干式电力变压器技术要求》
- GB6450-1986 《干式电力变压器》
- IEC60076-11 《国际电工委员会标准·干式电力变压器》

**Product Features 产品特点**

- 铁芯采用高导磁率硅钢片，表面涂有导电绝缘漆，具有低损耗和高导磁率的特点。
- 采用先进的密封技术和绝缘材料，确保变压器的密封性和绝缘性能。
- 结构紧凑，体积小，安装方便，适合各种场合使用。

**Product Size 产品尺寸图**

Note: The above parameters are only for reference as typical data, customer-made is subject to customer's request.
SC(B) Epoxy-resin filled Dry-type Electric Transformer
SC(B)环氧浇注干式电力变压器

### Selection Table 选型表

<table>
<thead>
<tr>
<th>Model 型号</th>
<th>Rating 额定容量 (VA)</th>
<th>Nominal Voltage 电压等级 (kV)</th>
<th>Rated Current 基本电流 (A)</th>
<th>Rated Current 基本电流 (A)</th>
<th>Dimension 长宽高 (mm)</th>
<th>Installation 安装尺寸 (mm)</th>
<th>Weight 重量 (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SC(B)-1000/10</td>
<td>500</td>
<td>0.4</td>
<td>10</td>
<td>10</td>
<td>1800 x 1800 x 1200</td>
<td>1800 x 1800 x 1200</td>
<td>500</td>
</tr>
<tr>
<td>SC(B)-2000/10</td>
<td>1000</td>
<td>0.4</td>
<td>20</td>
<td>20</td>
<td>3600 x 3600 x 2400</td>
<td>3600 x 3600 x 2400</td>
<td>1000</td>
</tr>
</tbody>
</table>

### Product Profile 产品简介

SC(B)H10 Amorphous alloy dry transformer has been developed and made with ripe technology and it possesses excellent performance such as safe, reliable, and environment. It reduces greatly loss of no-load and load loss, comparing the similar type transformer, the no-load loss descends 70%. The full load loss descends 15%. It is an idea product used for high-story building, shopping center, subway, airport, bus station, factory and power plant. It is especially used for the place where it needs high flame retardant and flame proof.

### Product Features 产品特点

The low voltage coil is of foil winding structure, having a remarkable anti-short-circuit capability; its high voltage coil is of envelope type and is of grade of H-molded insulation copper, it features admirable Three proofing performance and crack – performance free; The core is fabricated with amorphous metal alloy strip in a rectangular section and four frame five-column structure, with low loss, low partial charge and energy saving.

### Product Size 产品尺寸图

![Product Size Diagram](image)
SC(B) H10 Amorphous alloy Dry-type Transformer  

<table>
<thead>
<tr>
<th>Model Code</th>
<th>Rating (kVA)</th>
<th>Voltage (kV)</th>
<th>Current (A)</th>
<th>HV Side</th>
<th>LV Side</th>
<th>Freq. (Hz)</th>
<th>Temp. Rise (°C)</th>
<th>Installation Position</th>
</tr>
</thead>
<tbody>
<tr>
<td>SCS-SC10-450/10</td>
<td>450</td>
<td>450</td>
<td>1000</td>
<td>10/0.4</td>
<td>230/460</td>
<td>50</td>
<td>85</td>
<td>35</td>
</tr>
</tbody>
</table>

Note: The above parameters are only for reference. Actual data may vary according to specific model and application.