



**MLZL-60kV/3kVA High-tension DC
Transformer**

Operating Instruction

**Wuhang Huadian Meilun Electric Power
Technology Co., Ltd**



MLZL-60kV/3kVA High-tension DC Transformer

I. Introduction:

1-1 MLZL-60kV/3kVA high-tension DC transformer is widely used in the metallurgy, electric power, building materials, metal recycling, petrochemical, textile and other industries, and it is indispensable high-tension DC power source for the dust removal, smoke removal, acid mist removal, degrease, coal tar removal, electrostatic flocking removal, electrostatic spray, etc.

II. Characteristics:

2-1 This product is produced according to the technical requirements of users and strictly following the environmental protection industry standard HJ/T320-2006 of the People's Republic of China. It has reliable insulation level and impact voltage capability.

2-2 This product is characterized by operation stability



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and reliability, high performance and long-term maintenance of deposition efficiency, and also can undertake the transient short-circuit capacity.

2-3 The iron core adopts the single-frame core type with primary winding inside and high-tension winding outside (adopting the all-insulated bridge rectifying method). This kind of coaxial arrangement reduces the leakage magnetic flux and increases the coupling between windings, which can make the product power factor $\cos\phi \geq 0.9$ and achieve a high electricity saving efficiency.

III. Main Technical Parameters:

3-1 AC input voltage AC 240V/50Hz, single-phase

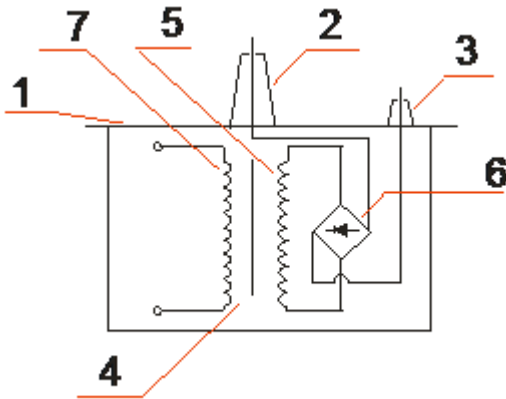
3-2 DC output voltage DC 0~60kV, adjustable

3-3 DC output current: 0~50mA, set

IV. Product Structure:

4-1 Structure Diagram of High-tension DC Transformer:

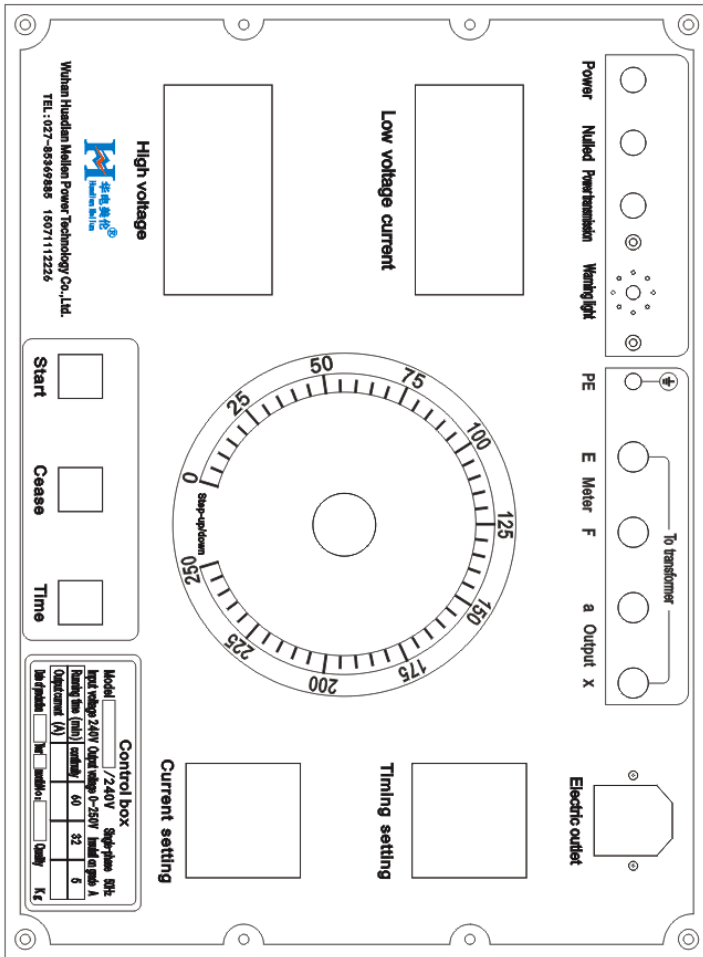
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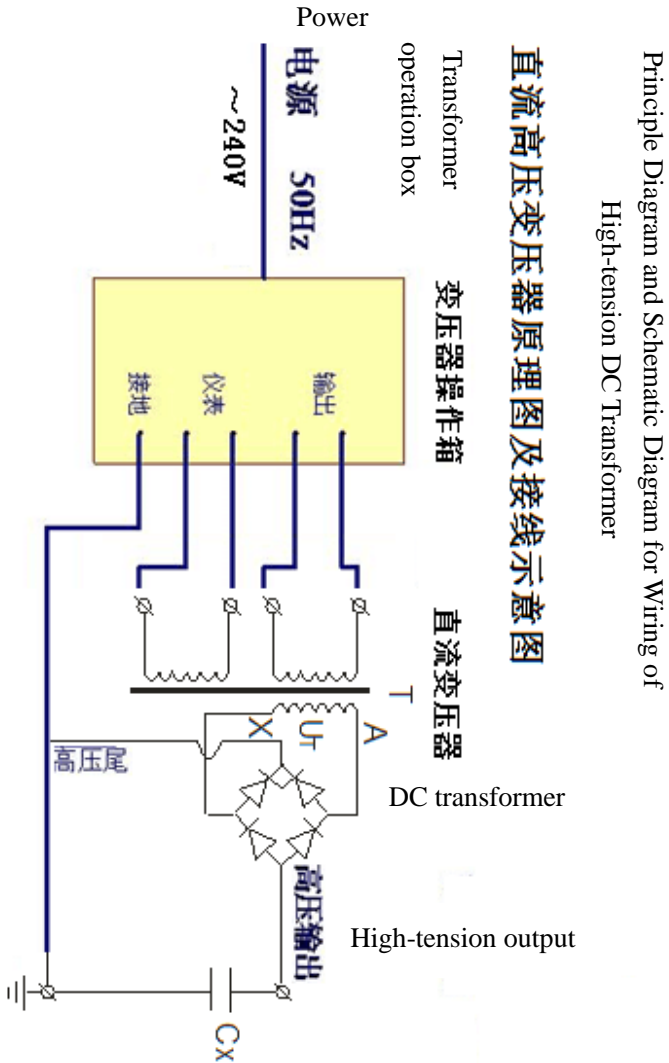
Structural Diagram

1. High-tension DC transformer case; 2. High-tension output casing of high-tension DC transformer; 3. Output end of high-tension DC transformer; 4. Iron core; 5. High-tension winding; 6. High-tension silicon stack; 7. Low-tension winding.

4-2 Diagram of Control Box Panel:



4-3 Principle Diagram and Schematic Diagram of Wiring



V. Operation Procedure:

5-1 First install and fix the operation display panel properly, and then connect the wiring (connector) of the operation display panel to the box body reliably.

5-2 Connect the output terminal at rear part of box body (to the transformer) with the input of transformer, connect the instrument terminal of operation box into the instrument terminal of high-tension transformer, and connect the grounding terminal to the grounding point of high-tension transformer to ensure reliable grounding (grounding resistance shall not exceed 1Ω).

5-3 Switch on the power after completing the wire connection, and the zero position indicator light shall be ON at this time (if it is not ON, return the lift lever to the zero position until the zero position indicator light is ON).

5-4 Press the "start" button when the zero position light is ON, and the working indicator light is ON at this time, which means that the relay is charged and the

high-tension DC power is also charged. Clockwise rotate the lift lever to observe the display value of current and voltage meter, and stop the voltage boosting process when rising to the required voltage.

5-5 If the reading value of current meter increases too fast (increase abruptly) during the voltage boosting process, stop the voltage boosting and disconnect the power supply to check the circuit and test item.

5-6 The single digit and tens digit of current setting value (dialer) shall be set according to the primary maximum DC current. (the primary current of this equipment is 12.5A) The current value usually can be set to 10A. In order to facilitate the safe operation of equipment, the current value (10A) shall be set according to 80% of the maximum current value.

VI. Service Conditions:

Altitude: $\leq 1000\text{m}$

Ambient temperature: $-10^{\circ}\text{C} \sim +40^{\circ}\text{C}$

Relative humidity: $\leq 80\%$

There is no water vapour, corrosive gas and flammable & explosive medium in surrounding area.

VII. Standard Configuration:

DC transformer: 1

Transformer operation box: 1

High-tension lead-out wire: 1

240V power line: 1

Fuse: 2

Factory report and specification: 1



All the above information, including the design of drawings, illustrations and charts, reflect our current understanding and knowledge, and they are believed to be correct and reliable. However, users shall assess the applicability of each product according to their own circumstances. In any case, this instruction does not constitute a guarantee. This kind of guarantee will be stipulated only in the product specification or the purchase contract of the product. Our responsibility for the product will be specified in the terms of the standard sales contract.

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