

1.1 、电源、启动、发电(1)



电源/启动/发电

The diagram illustrates the electrical control and power distribution for a generator system. Key components and their connections are as follows:

- Generator (发电机):** Connected to the voltage regulator and rectifier.
- Voltage Regulator (电压调节器):** Receives input from the generator and controls the rectifier. It includes a励磁线圈 (excitation coil).
- Rectifier (整流器):** Converts AC from the generator into DC for the excitation system.
- Control and Monitoring:**
 - F1/12:** A fuse connected to the generator's field winding.
 - EMS (Emergency Stop Switch):** A safety switch for the system.
 - 组合仪表 (Combined Instrument):** Monitors system parameters.
 - 483, 4G69, 48J44, 48J42, 48J51, 48J54, 48J56, 48J53:** Various relays and switches used in the control logic.
- Relays (IG1, IG2, IG3):** These relays are part of the control circuit, likely used for starting and stopping the generator. They are connected to the generator's field winding and the voltage regulator.
- Power Sources:**
 - FG2电源 (FG2 Power Source):** Provides power to the control circuit.
 - IG1电源 (IG1 Power Source):** Provides power to the control circuit.
 - ACC电源 (ACC Power Source):** Provides power to the control circuit.
- Grounding:** The system is grounded at points G47 and G48.

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