WHAT IS CLAIMED IS:

1. A power supply control device for an elevator, comprising:

a power supply;

a safety detecting assembly, comprising a plurality of detecting subunits connected in series in a safety detecting circuit, wherein the safety detecting circuit is electrically connected to the power supply;

an execution element, arranged in the safety detecting circuit;

a feedback control assembly comprising a controller, wherein the controller is connected between the safety detecting circuit and the power supply and configured to control the power supply to supply electricity, in response to electrical signal attenuation in the safety detecting circuit; and

a main control device in communication connection to each of the detecting subunits and to the controller;

wherein the working state of the elevator comprises a standby mode, a working mode, a sleep mode and an open mode; and the execution element comprises a contactor configured to control an elevator running circuit to be on or off;

wherein in the standby mode, the contactor is inoperative, and the main control device transmits a signal indicating the standby mode to the controller, the controller controls an output voltage of the power supply to be equal to a rated working voltage of the safety detecting circuit, to maintain the safety detecting circuit at a normal working voltage;

in the working mode, the main control device transmits a signal indicating the working mode to the controller, the controller controls the output voltage of the power supply to be equal to the rated working voltage of the contactor according to a feedback voltage detected by the circuit connector;

in the sleep mode, the main control device transmits a signal indicating the sleep mode to the controller, the controller controls the output voltage of the power supply to be zero; and

in the open mode, the controller controls the output voltage of the power supply to be the maximum output voltage of the power supply.

2. The power supply control device for an elevator according to claim 1, wherein the feedback control assembly further comprises a circuit connector provided with at least one connecting interface, the connecting interface is electrically connected to the safety detecting circuit, and the controller is connected to the circuit connector.

3. The power supply control device for an elevator according to claim 2, wherein the circuit connector is provided with one connecting interface electrically connected to a negative electrode of the last detecting subunit.

4. The power supply control device for an elevator according to claim 2, wherein the circuit connector is provided with at least two connecting interfaces, wherein one connecting interface is electrically connected to a negative electrode of one detecting subunit.

5. The power supply control device for an elevator according to any one of claims 2 to 4, wherein the controller is configured to detect, by the circuit connector, one or more of a voltage drop and a current drop in the safety detecting circuit.

6. The power supply control device for an elevator according to any one of claims 2 to 4, wherein the feedback control assembly further comprises an analog-digital converter connected between the circuit connector and the controller.

7. The power supply control device for an elevator according to claim 1, wherein the contactor is arranged in the safety detecting circuit.

8. The power supply control device for an elevator according to any one of claims 1 to 4, wherein the plurality of detecting subunits at least comprises a machine-room safety detecting unit, a hoistway safety detecting unit, a car-roof safety detecting unit, a front-car-door safety

detecting unit, a rear-car-door safety detecting unit, a front-landing-door safety detecting unit, and a rear-landing-door safety detecting unit.

9. The power supply control device for an elevator according to claim 1, wherein a frequency converter is further arranged in the safety detecting circuit, the frequency converter is communicated to the main control device.

10. The power supply control device for an elevator according to any one of claims 1 to 4, wherein the execution element further comprises a main switch arranged in the safety detecting circuit.

11. The power supply control device for an elevator according to any one of claims 1 to 4, wherein the power supply is a direct-current power supply.

12. The power supply control device for an elevator according to any one of claims 1 to 4, wherein the power supply is an alternate-current power supply with a rectifying circuit electrically connected to the alternate-current power supply.

13. An elevator system, comprising a power supply control device for an elevator according to any one of claims 1 to 12.