CLAIMS

1. A load testing apparatus comprising:

a resistive unit that includes one or more resistor groups having a plurality of resistors and is connected with a power source to be tested for a load test;

a cooling fan that cools the resistors in the resistive unit; and

a control unit, wherein

an exhaust lid that opens when being used is provided at an exhaust port at a downstream of the resistive unit,

an exhaust opening detection part that detects an opened/closed state of the exhaust lid is provided at the exhaust port or the exhaust lid, and

the control unit performs off control that stops power supply from the power source to be tested to the resistive unit based on information from the exhaust opening detection part and at least one of information about a current flowing through or a voltage applied to the resistors, the resistor groups, or the resistive unit, information about an exhaust temperature at the downstream of the resistive unit, and information about a rotation state of the cooling fan.

2. The load testing apparatus according to claim 1, wherein

the resistive unit is provided with a current/voltage detection part that detects a current flowing through or a voltage applied to the resistors, the resistor groups, or the resistive unit and a temperature detection part that

detects an exhaust temperature at thea downstream of the resistive unit,

a rotation state detection part that detects a rotation state of the cooling fan is provided in the cooling fan, and

the control unit performs the off control ~~that stops power supply from the power source to be tested to the resistive unit~~ based on information from the current/voltage detection part, information from the temperature detection part, and information from the rotation state detection part.

32. The load testing apparatus according to claim 21, further comprising:

a current/voltage warning part indicating by at least one of light and sound that the off control is based on the information from the current/voltage detection part;

a temperature warning part indicating by at least one of light and sound that the off control is based on the information from the temperature detection part; and

a cooling fan warning part indicating by at least one of light and sound that the off control is based on the information from the rotation state detection part.

43. The load testing apparatus according to claim 32, wherein

the resistive unit has the two or more resistor groups,

the resistor group includes two or more selection switches that are used for selecting whether or not the power from the power source to be tested is supplied,

the current/voltage detection part is provided for every resistor group, and

as the current/voltage warning part, a lighting device is provided in a vicinity of each of the two or more selection switches.

5~~4~~. The load testing apparatus according to claim 4~~3~~, wherein for the resistor group which has been selected as a power supply object from the power source to be tested via the selection switch, a determination is made as to whether or not a value of a current flowing through the resistor group or a value of a voltage applied to the resistor group is within a range during normal operation, and for the resistor group which has not been selected as the power supply object from the power source to be tested, a determination is made as to whether or not the current flows through the resistor group or whether or not the voltage is applied to the resistor group.

6~~5~~. The load testing apparatus according to claim 2~~1~~, wherein

~~an exhaust lid that opens when being used is provided at an exhaust port at the downstream of the resistive unit,~~

~~an exhaust opening detection part that detects an opened/closed state of the exhaust lid is provided at the exhaust port or the exhaust lid, and~~

the control unit performs the off control based on the information from the current/voltage detection part, the information from the temperature detection part, the information from the rotation state detection part, and information from the exhaust opening detection part.

7~~6~~. The load testing apparatus according to claim 6~~5~~, wherein

an intake lid that opens when being used is provided at an intake port of the cooling fan,

an intake opening detection part that detects an opened/closed state of the intake lid is provided at the intake port or the intake lid,

the control unit performs the off control based on the information from the current/voltage detection part, the information from the temperature detection part, the information from the rotation state detection part, the information from the exhaust opening detection part, and information from the intake opening detection part.

8~~7~~. The load testing apparatus according to claim 6~~5~~, wherein

an opening operation of the exhaust lid is performed by driving an actuator,

the off control is started after a time needed to open the exhaust lid by the actuator has passed since a main power source of the load testing apparatus is turned on.

~~8. A load testing apparatus comprising:~~

~~a resistive unit that includes one or more resistor groups having a plurality of resistors and is connected with a power source to be tested for a load test;~~

~~a cooling fan that cools the resistors in the resistive unit; and~~

~~a control unit, wherein~~

~~an exhaust lid that opens when being used is provided at an exhaust port at a downstream of the resistive unit,~~

~~an exhaust opening detection part that detects an opened/closed state of the exhaust lid is provided at the exhaust port or the exhaust lid, and~~

~~the control unit performs off control that stops power supply from the power source to be tested to the resistive unit based on information from the exhaust opening detection part and at least one of information about a current flowing through or a voltage applied to the resistors, the resistor groups, or the resistive unit, information about an exhaust temperature at the downstream of the resistive unit, and information about a rotation state of the cooling fan.~~

9. The load testing apparatus according to claim 1~~8~~, further comprising a protective relay that performs the off control based on information about a current flowing through a power source line from a power source for driving that supplies power driving the cooling fan or a voltage applied from the power source for driving to the load testing apparatus via the power source line.