

OONO®

CZH-LABS.com

Multifunctional Electrical System Protection Device

Model: F-1054B



IMPORTANT !

- ✧ **THIS MODULE OPERATES ON A HAZARDOUS VOLTAGE !**
- ✧ **DISCONNECT AC POWER DURING INSTALLATION !**
- ✧ **Installation must be done according to local regulations and standards. If any doubt, consult a licensed technician.**
- ✧ **This module is not suited for portable applications.**

Features:

- **F-1054B Multifunctional electrical system protection device, this product has the following main functions:**

- 1, Undervoltage protection, less than 90V AC.**
- 2, Overvoltage protection, more than 135V AC**
- 3, e-Fuse Overcurrent protection, 1 – 15 Amp configurable.**
- 4, Surge protection, maximum 8k Amp(8/20 μ S).**
- 5, Pulse protection, VPR 700V (L-N, L-G, N-G).**

It is suitable for home appliances, laboratory testing instruments, office electrical equipment, computer systems, etc. Double output outlets, can protect two appliances at the same time. Of course, you can also use power strip extensions, as long as the total power is less than 1800 watts. The product is easy to use and does not require cumbersome settings, all status can be seen at a glance by its LEDs.

- **Undervoltage (< 90V) and Overvoltage (> 135V) protection:**
When the mains voltage is less than 90V or more than 135V, the outlet power output 1 and 2 will be cut off. When the mains voltage returns to normal range, outlet power output will be restored after 10 to 360 seconds (delay time is selectable by button, can select 10, 60, 180, 360 seconds or disable the voltage protection function).
- **e-Fuse Overcurrent protection function, the e-Fuse function can be disabled and enabled by the button, enable status can set e-Fuse current from 1 Amp to 15 Amps (per step increase 1 Amp), when the load current exceeds the set value, outlet power output 1 and 2 will be cut off within 1 to 3 seconds.**
- **Surge protection, maximum 8k Amp(8/20 μ S). Pulse protection, VPR 700V (L-N, L-G, N-G). Live to Neutral, Live to Protective-Earth and Neutral to Protective-Earth, all are equipped with protective components.**
- **Power ON/OFF button, you can manually control outlets power output ON / OFF by the button. Or press and hold the ON/OFF button for 3 seconds to forcibly disable all protection functions, outlets power output will forcibly turn to ON. Forcibly disabling the protection function will cause your load equipment to work under an unsafe power supply voltage, so please use it with caution.**
- **The device all button status operations have power-off memory function, the next power up will automatically restore the status before last power-down (outlet output on/off status, e-Fuse and Delay Time values), the purpose of this is that even if the mains power is unexpectedly cut off, there is no need to repeat the settings.**

Specifications:

AC power: 90 to 135VAC (60Hz).
Maximum total load current: 15 Amps.
Maximum load: 1800 Watts.
Voltage protection: Undervoltage < 90V and Overvoltage > 135V.
Voltage protection delay time: 10, 60, 180, 360 seconds, or disable the function.
Surge protection: Up to 8kA (8/20 μ S).
e-Fuse Overcurrent protection: Disable / Enable (1 to 15 Amp).

Function details:

- **Power-up action delay:**
If the output status of the outlet was ON before the last power outage of the device, when the device is powered-up, the outlet output will be delayed for 3 seconds, this will prevent your mains distribution box from tripping due to overload. If the output status of the outlet was OFF before the last power outage of the device, you must click the ON/OFF button to activate the output.
- **Power ON/OFF button:**
You can quickly manually control the power ON or OFF of the output, and will memory the power output status, the next power-up will follow the state before the last power-down.
Or press and hold the ON/OFF button for 3 seconds to forcibly disable all protection functions, outlets power output will forcibly turn to ON. Forcibly disabling the protection function will cause your load equipment to work under an unsafe power supply voltage, so please use it with caution.
- **Undervoltage and Overvoltage protection:**
This function can be disabled and enabled via the "Delay Time" button, click the button, five states can be cycled and selected, **10S - 60S - 180S - 360S - all LEDs off**. all LEDs off indicates that the function is disabled, when the function disabled, even if the voltage is < 90V or > 135V, the output of the outlet will not be cut off.
10S - 60S - 180S - 360S, any one of the 4 LEDs lights up, to indicate that the voltage protection function is enabled, and indicates the delay time for output recovery after the voltage returns to normal. When the voltage is lower than 90V or higher than 135V, outlet 1 and 2 power will be cut off within 0.5 second, Undervoltage LED or Overvoltage LED will light up. When mains voltage returns to the normal range, Undervoltage LED or Overvoltage LED will light down, and Delay Time LED will flash, when the delay time is full, the LED will stop flashing and stay on, and outlets output power will return to ON.
When this feature is enabled, and when the voltage is lower than 90V or higher than 135V (Undervoltage LED or Overvoltage LED light up), ON/OFF button will be disabled, until the voltage returns to normal range.
When this feature is enabled, and when the voltage is lower than 90V or higher than 135V (Undervoltage LED or Overvoltage LED light up), if you want to force the outlet output to on, you can click the Delay Time button to disable the voltage protection function, or press and hold the ON/OFF button for 3 seconds to forcibly disable all protection functions. Forcibly disabling the protection function will cause your load equipment to work under an unsafe power supply voltage, so please use it with caution.
- **Surge protection and Pulse protection:**
Surge protection, maximum 8k Amp(8/20 μ S). Pulse protection, VPR 700V (L-N, L-G, N-G). Live to Neutral, Live to Protective-Earth and Neutral to Protective-Earth, all are equipped with protective components.

- **e-Fuse Overcurrent protection function:**

e-Fuse Overcurrent protection function, can be disabled / enabled e-Fuse function, enable status can set e-Fuse current from 1 Amp to 15 Amps (per step increase 1 Amp).

Click e-Fuse button, 1A 2A 4A 8A four LEDs will be displayed cumulatively, all LEDs off means that the current protection function is disable. For example, if you set 7 Amp, 1A 2A 4A LED will light up and 8A LED will off ($1A + 2A + 4A = 7Amp$).

When the e-Fuse overcurrent protection is triggered, the outlet's power output is disconnected and the Overcurrent LED lights up.

Load current reaches 1.1 - 1.5 times the set value, after 3 seconds the overcurrent protection is activated and the output is disconnected.

Load current reaches 1.5 - 2.5 times the set value, after 2 seconds the overcurrent protection is activated and the output is disconnected.

Load current more than 2.5 times, after 1 second the overcurrent protection is activated and the output is disconnected.

Output off due to over-current will not turn to on automatically, you must carefully check all load devices, and only after troubleshooting all faults can you click the ON/OFF button to turn on the output. If the fault is not resolved and forced to turn to on, the overcurrent protection will be triggered again.

Regarding the first-time use setting:

1, Plug the cable plug into wall socket (the device OUTPUT 1 and OUTPUT2 must no-load).

2, If the output status is ON (output status LED green), please click the ON/OFF status to OFF (output status LED red).

3, Set the Delay time, we recommend you choose 180S, of course, you can also choose any other time value. If you do not need the overvoltage/undervoltage protection function, click the button until all 4 LEDs go out, and the function will be disabled.

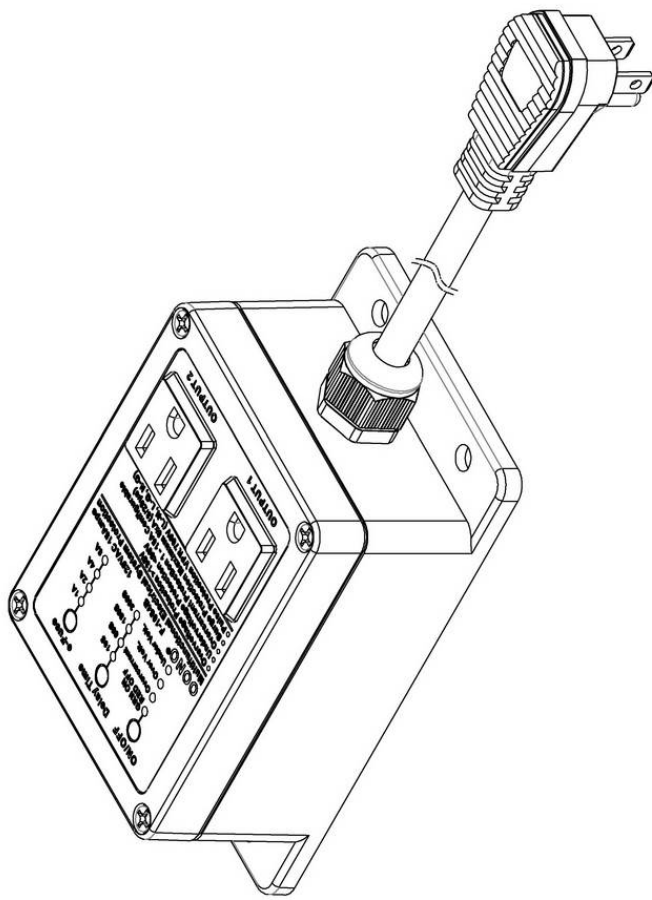
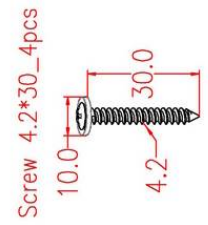
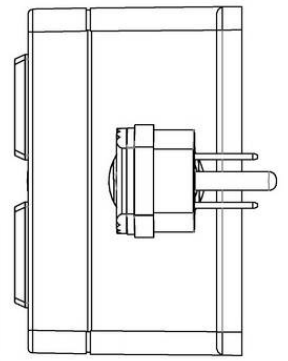
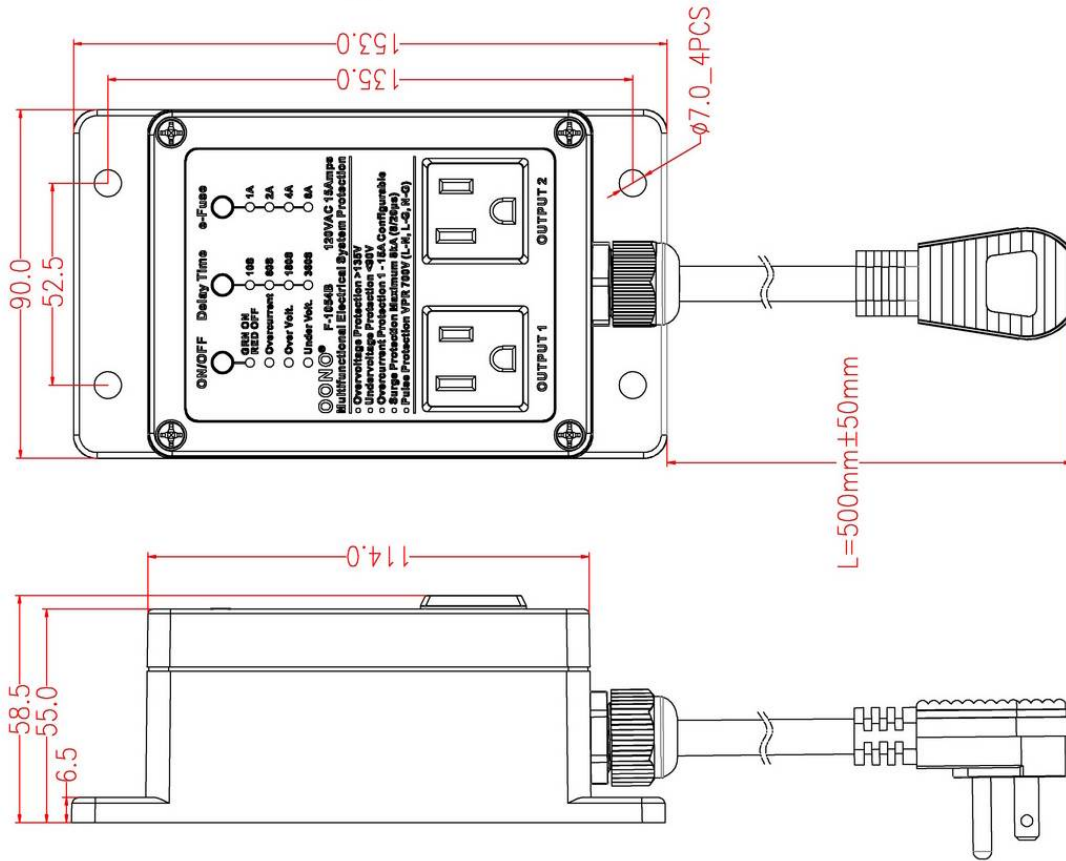
4, Set e-Fuse of overcurrent protection value. If you don't know how much current to set, you can temporarily set it to 15 Amps, click the button to light up all 4 LEDs, and the current protection value at this time is 15 Amps. If you don't need the overcurrent protection function, click the button until all 4 LEDs go out, and the function will be disabled.

5, Plug your home appliance power plug into the device socket OUTPUT 1 or / and OUTPUT 2.

6, Click ON/OFF button to output status to ON (output status LED green).

7, At this time, your home appliances or instruments have been powered on, and their power supply has been monitored and protected.

Dimensions:



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| 00NO® czh-labs.com | |
| MODEL NO: F-1054B | SKU: MD-F1054B-1 |
| PROJECTION: | UNIT: mm |