

# FATECH ELECTRONIC (CHINA) LTD

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## Portable Surge Generator FPT15-I



**FPT15-I** Portable surge generator is designed for on-site testing of surge protective device and lightning strike counter.

The surge generator is able to release max. discharge current 2.5kA, realized one-key operation of charging and discharging. Press the green "Start" button, the surge generator starts charging, the relay starts counting time until the device stop charging, while discharging. When time relay's indication light off, the test end.

**Note:** Green "Start" button cannot be repeated click during testing.

### Technical data

1. General		
Dimension (L*W*D)	360*345*160mm	
Weight	11kg	
Case Material	steel	
Operation Temp	0°C~40°C	
Operation Humidity	<=75%	
Storage Temp	-10°C~50°C	
Power Supply	220V AC	
2. Technical data		
Allowable Tolerance of Impulse Current	Front time	8μS±10%
	Time to half value	20μS±10%
Surge current	2500A	
Over-impulse range	<20%	
Max Charging Voltage	1100V	
Power consumption	50W	
Charging Voltage Display	4 Digital LED display	

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## Panel Introduction:

The front & back panel as shown in figure 1&2:

“**Time Relay**”—control surge generator charging time. The original setting display as 3S, output voltage is 1100V, output surge current is 2.5kA. If need to reduce output surge current , you can reduce the charge time, that is to adjust the time of time relay, it can accurate to 0.1S.

“**Voltage**”—Real-time voltage .

“**Start**”—Control charging and discharging procedure.

“**Test**”—Check the lamp ON or OFF before and after the test.

“**Output**”—Output current waveform, testing surge protective device or other products.



Fig.1 front panel



Fig.2 back panel

## Operating procedure for lightning strike counter:

Please connect the devices according to Fig 3.

1. Plug the main power cable into an electrical outlet.
2. Cable pass through the lightning strike counter to be tested.
3. Connect the both ends of cable to terminal indicated “**Output**”.
4. Press down switch on back panel.
5. Press down green “**Start**” button.
6. Observe the timing relay action "dark - light - dark".
10. Test finished

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Fig3. Picture of Connection

## Operating procedures for surge protective device function testing:

Take the example of lamps testing, please make connections according to Fig 4.

1 Plug the power cable in electrical outlet.

2 Connect the surge protective device and lamps to the output terminal

3 Press "test" button (output voltage 220V) to verify the lamp status.

**NOTE: Please DO NOT test products with power>50W.)**

4 Press "Start" button until test end.

5 Press "test" button (output voltage 220V) to verify the lamp status, if it is "ON", means surge protective device protected the lamp.

6 Pull out the surge protective device

7 Press "test" button (output voltage 220V) to test the product operation status

**NOTE: Please DO NOT test products with power>50W.)**

8. Press "Start" button until test end.

9. Press "test" button (output voltage 220V) to verify the lamp status, it is "OFF", means lamp damaged by lightning during system without surge protective device.

10. Test end.

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Fig 4

