

## LSG-255 Impulse Voltage Generator

### 1. Description

The impulse voltage generator (high voltage surge generator) is in line with the requirements of IEC60225-5, IEC60060, IEC60950, IEC60335-1, GB14711 and etc. It is applied to do insulating performance test of electrical and electronic products like small power motor, low voltage electrical appliances, householding appliance, relay and etc.

The impulse voltage generator has a no-load wave shape corresponding to the 1.2/50 $\mu$ s standard impulse specified in IEC 61180-1. The impulse test voltage is from 0.5KV to 12KV.



### 2. Features:

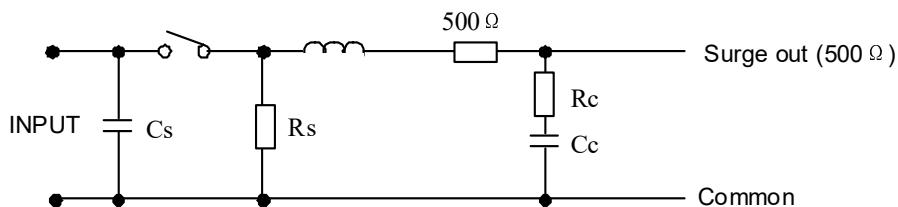
- 1) 7 inch LCD touch screen with multifunction, easy to operation and update software
- 2) Built in over-voltage, over-current, short circuit protection
- 3) Voltage error and no output warning
- 4) Built-in 1000:1 attenuation probe, which can monitor the voltage waveform by work with an external oscilloscope
- 5) Chinese and English software available

### 3. Technical Parameters:

- 1) Open output voltage: 12KV (max) $\pm$ 5%
- 2) Frontier time: 1.2 $\mu$ s $\pm$ 30%
- 3) Half-value time: 50 $\mu$ s $\pm$ 20%
- 4) Output polarity: positive, negative, positive/negative automatically
- 5) Output impedance (optional): 2 $\Omega$ /12 $\Omega$ , 500 $\Omega$  $\pm$ 10%
- 6) Test times: 1~9999 times
- 7) Surge interval: 3~999s
- 8) Working environment: 15°C~35°C (temperature), 10%~75% (humidity)
- 9) Working power: 220V $\pm$ 10% AC, 50/60Hz
- 10) Dimension: 470mm\*260mm\*500mm (W\*H\*D)
- 11) Weight: 35KG

### 4. Principle and waveform

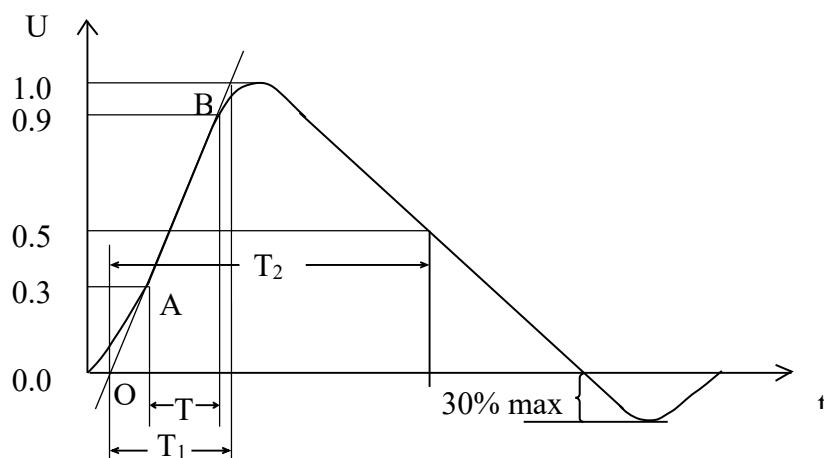
#### 1) 1.2/50 $\mu$ s surge waveform (generator section) equivalent circuit



#### 2) Open voltage waveform

Frontier time: T1=1.67T=1.2 $\mu$ s $\pm$ 30%

Half-value time: T2=50 $\mu$ s $\pm$ 20%



Real waveform:

