

## Automatic Lightning Surge Test System ICG

## ICG UK50

### Datasheet



#### In Compliance with

- > IEC 61643-1
- > IEC 61051-1
- > GB/T 9043
- > YD-T 940

#### Introduction

Automatic lightning surge test system ICG UK50, it is featured with high system integration and intelligence and easy operation. Setting test requirements on parameters setting page, test can be conducted with one button. Internal components test fixture, it is easy to test. The system is mainly for performance test for surge protection device, such as TVS and gas discharging tube for II level and and III level test. It can be used in production line or product development. With standard 8/20  $\mu$ s/ and 10/1000  $\mu$ s/ surge impulse current waveform, it can also meet different test requirements with optional output waveforms and testing parameters.

#### Features

- > test voltage up to 1000 V for air discharge and contact discharge
- > Computer operation, test rate up to 7PCS/S
- > German fast high power semi-conductor discharging switch
- > identify DUT polarity automatically
- > internal temperature sensor
- > self-detection
- > internal DUT box and test clamps

#### Application Areas

- > Communication
- > Telecom
- > Medical
- > Radio and TV
- > Railway
- > Information technology
- > Military
- > Aviation
- > New energy power

Technical parameters	
Model	ICG UK50
Input mains	AC 220 V 5 KVA
Output waveform	Current waveform: 10(-10% + 100%) $\mu$ s /1000 ( $\pm$ 10%) $\mu$ s
Optional Waveform	8 ( $\pm$ 10%) /20 ( $\pm$ 10%) $\mu$ s
Charging Voltage	0.2~2000 V
Current Peak	3 A~2000 A
Output Peak Resolution	$\pm$ 5%
Number of Test	1~99 adjustable
Interval Time	1~99s adjustable
Single Recycle Duration	7 s+ test duration
Control Mode	Automatic continuous test or manual single test
DUT Polarity Judgment	Polarity can be identified automatically

General Parameters	
Power supply	AC220 V $\pm$ 10%, 50/60 Hz
Temperature	10-40 °C 35%-85%RH (no condensation)
Dimension	1200x700x1800 mm
Weight	Approx. 500 kg

Technical Parameters	
Surge Pulse	IEC 61051-1
Rise Time	10 $\mu$ s-10% + 100%
Duration	1000 $\mu$ s $\pm$ 10%
First measurement Range	15 A $\pm$ 10% @1 kV 30 A $\pm$ 10% @2 kV
Second Measurement Range	200 A $\pm$ 10% @1 kV 400 A $\pm$ 10% @2 kV
Third Measurement Range	500 A $\pm$ 10% @1 kV 1000 A $\pm$ 10% @2 kV
Fourth Measurement Range	100 A $\pm$ 10% @1 kV 2000 A $\pm$ 10% @2 kV



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