

Compact type Fully Automatic Impulse Current Generator

S20D200

Datasheet



In Compliance with

- | | |
|---------------------|---------------------|
| > GB18802.1-2011 | > IEC 61643-1:2005 |
| > GB/T 16927.1-1997 | > IEC 61000:1995 |
| > GB/T 16896.1 | > GB/T 17626.5-2008 |
| > GB11032-2000 | > UL1449-2010 |
| > YD/T 5098-2001 | |

Introduction

S20D200 is a fully automatic surge current generator researched & developed by 3ctest and has the advantages of highly integrity, intelligent control and easy operation etc. By means of unified plan, using general main-components (capacitors, ect.) and by means of combination of different main loop unit and waveform generating networks, the equipment output is divided into multiple levels. Through the combination of each level, the output range can be widened, which realize the concept of breaking up the whole into parts for HV testing system. Fully automatic control function makes the operation of test only by one-button possible as long as easy configuration for test requirements is conducted on the page of parameter setup. Not only does the control unit has the function of enabling automatic voltage rise and fall, on and off, manual and auto switching, but also the function of alarming and cutting off mains when charging voltage reached to upper limits, controlling for discharging time interval, recording discharging times and automatically changing polarity.

Features

- > Colorful touch screen 10 inches LCD
- > PLC control system, fully automatically control system;
- > LCD display for voltage and current
- > One-touch test, equipped with programmable function
- > RS232 communication interface making remote control realizable
- > Built-in grounded equipment and security lock double protection

Application Areas

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|-----------------------------|--------------|
| > Communication | > Military |
| > Telecom | > Avionics |
| > Medical | > Technology |
| > Broadcast | > Railway |
| > New Energy Electric Power | |

General Parameters	
Display Screen	Colorful, touch-screen 10 inches, LCD
Power Supply	AC 110 V/220 V, $\pm 10\%$, 50 Hz /60 Hz $\pm 5\%$
Fuse	10 A
Max. Power Consumption	2000 W
User Storage Space	Infinite (PC)
Communication Mode	RS232
Alarm Light	DC 24 V dual-color audible & visual alarm light
Safety Circuit	When safety circuit is ON, the operation will stop.
Failure Detection	The failure information will be displayed on front panel when failure occurs and the operation will be discontinued.
Operating State Indication	Front Panel: LED indication, LCD display
Grounded Connection Mode	Use flat grounded lines
EUT Mains Voltage Injection Mode	4 mm ² banana plug lines
Cabinet Dimension	1730 mm x 600 mm x 700 mm (35U)
Weight	Approx. 200 kg
Ambient Temperature	15 °C ~ 35 °C
Relative Humidity	45% ~ 75%
Atmosphere Pressure Range	86 kPa ~ 106 kPa

Standard Accessories	
Power Supply Cables	Three-core, straight 1 pc
Power Supply Coils (built-in)	TR5056 1 pc
Coaxial Cables	1 m 1 pc
Fuse	RT28-32 10 A 1 pc
Testing lines	Red 1 m 1 pc
Testing Lines	Black 1 m 1 pc
Short-Link Cables	Red 0.135 m 1pc
Grounded Cables	2 m 1pc
Factory Inspection Report	1 set
Operating Instruction	1 set
Quality Guarantee	1 set

Technical Parameters	
As per Standards	GB18802.1-2011 GB/T 16927.1-1997 GB/T 16896.1 GB11032-2000 YD / T 5098-2001 IEC 61643-1:2005 IEC 61000:1995 GB/T 17626.5-2008 UL1449-2010
Output Waveform	10 (-10%+100%)/1000 μ s \pm 20% current waveform
Output Peak Current	2000 A \pm 10%
Output Range	Range 1 25 A~125 A
	Range 2 100 A~500 A
	Range 3 500 A~2000 A
Range Switching	Automatic switching
Voltage Polarity	Positive/Negative (automatic switching)
Charging Duration	10 s ~999 s
Uncertainty of Charging Voltage	Less than 1%
Trigger Mode	Auto/Manual, can be triggered for single time
Trigger Accidental Operation Rate	Less than 1%
Trigger Range	100% rated charging voltage
Measurement Display Accuracy	Better than 3%
Insulation Strength	\leq 500 V RMS (Common-end COMMON ground reference PE)
Auxiliary Mains Voltage	220 V ($\pm 10\%$)/50 Hz
Auxiliary Mains Current	<10 A (continuous)



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