

Surge (impulse) current simulator (15kA)

S10C15



As per

- > IEC 61643-1
- > GB/T 17626.5
- > GB/T16927.1
- > GB/T 16896.1
- > GB11032-2000
- > GB18802.1-2002
- > YD/T 1235.2-2002
- > UL1449

Description

S10C series surge (impulse) current simulator is based on 3ctest third-generation intelligent multiple function comprehensive test simulator. One stop multi-waveform surge test platform is built by combination of different waveform generation network. Programmable controller and computer technology is applied for control. Unique color touch screen and friendly human-machine interface. It highly enhance test efficiency for high voltage and current test with easy operation. Setting simple test requirements on parameters setting page, all test can be done automatically. It is featured with high system integration and intelligence, easy operation and safety system to save time and space.

Features

- > color touch screen 7 inch LCD
- > PLC control system, automatic control system
- > current and voltage LCD display
- > one-button test with programmable function
- > RS232 communication port for remote control
- > internal ground device and safety lock

Industries

- | | |
|-----------------|--------------|
| > Communication | > Technology |
| > Telecom | > Military |
| > Medical | > Avionics |
| > Broadcast | > New energy |
| > Railway | |

Technical parameters	
Model	S10C15
Output waveform	8/20 μ s (\pm 10%) current wave
Output peak current	15kA \pm 10% Reversed polarity peak <20%
Voltage polarity	+/- (automatic switch)
Charging time	10s~999s
Charging voltage instability	Less than 1%
Trigger mode	Automatic or manual, single trigger
Trigger malfunction	Less than 1%
Trigger range	100% rated charging voltage
Measurement display resolution	Better than 3%
Insulation strength	\leq 500V RMS (common port COMMCN to reference ground PE)
Auxiliary mains voltage	220V(\pm 10%)/50Hz
Auxiliary mains current	<10A (continuous)

General data	
Power supply	AC220V \pm 10%, 50/60Hz
Temperature	-10-+40 $^{\circ}$ C
Humidity	35%-85%RH (no condensation)
Ground resistance	No more than 0.5 Ω
Dimension	600x800x1171mm (22U)
Weight	Approx. 200kg
No conductive dust, no fire or explosion danger, no corrosive metal and insulation air. Waveform of mains voltage is sine wave. The THD is <5%.	

Optional accessories for S10 series simulator:

Name	Model	Installation (connection) mode	Reference picture
Oscilloscope	MDO3012	External	
Current probe	TR5056,20kA	Internal	
Voltage probe	P6015A, 40kV Peak	External	
Peak acquisition system	Internal acquisition system for voltage and current, touch screen display	Internal	
Test box	PA 350	External	
Remote control software	MCS3000, programmable test from PC port, support Win xp, Win7	RS232	



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