



Impulse Current Simulator

S15C Series

- IEC 61643-11
- GB/T 18802.11

Features

- > 5.7 inch color touch screen front panel operation;
- > The test current can reach 40 kA;
- > Easy to operate;
- > Ethernet LAN communication, stable and reliable.

Introduction

The S15C series is a new type of impulse current simulator developed based on standards. It can output 8/20 μ s pulse current waveform, with a maximum output current of 40 kA.

Application Areas



Technical Parameters

| | |
|-------------------------------------|---|
| Test Current Range | 0.5 kA - 40 kA ($\pm 10\%$) |
| Charging Voltage | ≤ 15 kV |
| Current Waveform | Wavefront time: $8 \mu\text{s} \pm 10\%$ Half peak time: $20 \mu\text{s} \pm 10\%$ The wavefront time is defined as $1.25 * (10\% - 90\%)$ The half peak time is defined as $1.18 * (50\% - 50\%)$ |
| Polarity | Positive, negative, first positive and then negative |
| Source Output Impedance | $\leq 0.75 \Omega$ (20 kA) $\leq 0.5 \Omega$ (30 kA) $\leq 0.4 \Omega$ (40 kA) |
| Repetition Rate (single pulse time) | 11 s - 99 s (the shortest time depends on the test current value) |
| Number of Rials | 1 - 999 |
| Trigger Method | Manual, automatic, external triggering |

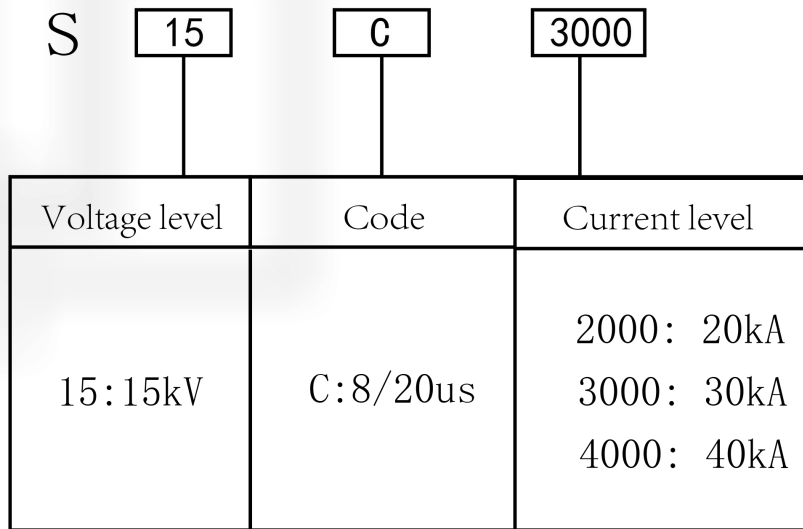
General Parameters

| | |
|--|---|
| Display | 5.7 inch TFT touch screen |
| Working Power Supply Range | AC 220V, $\pm 10\%$, 50/60 Hz $\pm 5\%$ (Domestic default AC 220 V 50 Hz) |
| Fuse | 10 A |
| Maximum Power Consumption | 1500 W |
| Communication Methods | Ethernet LAN |
| External Control Methods | 25 pin parallel thread |
| External Trigger Input | BNC, 5 V TTL |
| Operation Control Input | BNC, 5 V TTL |
| Instrument Grounding Connection Method | Using a flat grounding wire |
| Chassis Size | 22U cabinet (600mm * 800mm * 1250mm) |
| Instrument Weight | Approximately 162 kg |
| Environmental Scope | 15°C - 35°C |
| Pressure Range | 86 kPa - 106 kPa |
| Humidity Range | 45% - 75% |

Standard Accessories

Test Wires, Fuses, Power Lines, Grounding Wires, Factory Reports, and Manuals.

Naming rules:



*Customizable according to customer needs

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