

## Impulse Current Generator

## S6C1000/S6C600

### Datasheet



#### In Compliance with

- > EN/IEC 61643-1
- > UL 1449
- > GB/T 18802.1

#### Introduction

S6Cxx series are intelligent impulse current test equipment which can meet different requirements of international standards and products standards for small electric impulse test.

S6 series are the preferred choice for compact impulse current test, which not only meet the requirements of European Approval of CE and CCC for the immunity test of single-phase EUT, but also can realize the automatic control test through operation on touch screen and provides multiple desired accessories to meet the application requirements of EUTs, such as various components, power supply modules, surge protection modules etc.

#### Features

- > Front panel operation with 5.7 inches colorful tough screen
- > Test programmable function
- > Ethernet and RJ45 interfaces are used for PC remote control and test reports print
- > Function of built-in current check
- > Imported electrical switch is used as main switch

#### Application Areas

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

General Parameters	
Display Screen	5.7 Inches TFT touch screen
Power Supply	AC 110 V/220 V±10%, 50 Hz /60 Hz±5%
Fuse	6 A
Max. Power Consumption	100 W
User Storage Space	Infinite (PC)
Communication Mode	Ethernet, RJ45
Auxiliary Interface	D-sub 25p
External Trigger Input	BNC,5 V TTL
CRO Trigger Output	BNC,5 V TTL
Operation Control Input	BNC,5 V TTL
Alarm Light Output	0 V - 220 V AC, 10 A / 0 V - 48V DC, 3 A Power supply depends on the types of external signals
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
Dimension	19 Inches/ 6 U
Weight	Approx. 15 kg
Temperature Range	5°C ~ 40°C
Relative Humidity	Less than 80%, no condensation
Atmosphere Pressure Range	75 kPa ~ 106 kPa

As per IEC 61643-1 GB/T18802.1 Impulse Current Tests		
SURGE Module		
Model No.	S6C600	S6C1000
Standard	IEC 61643-11, GB / T 18802.1	
Test Current Range	300 A ~ 6 kA ±10%	500 A ~ 10 kA ±10%
Circuit Waveform	Front time: 8 μs ± 20 % Time to half-value: 20 μs ± 20 %	
Charging Voltage Range	Set current value*equivalent impedance + compensation voltage ≤ 6000 V	Set current value*equivalent impedance + compensation voltage ≤ 5000 V
Source Output Impedance	1 Ω	0.5 Ω
Output Polarity	Positive/ Negative/ Positive and negative alternation	
Impulse Cycle	5 s-99 s	
Surge Current Detection	BNC output on front panel Surge Current: 100 A: 1 V	
Counter	1 ~ 10000	
Trigger Mode	Auto/ Manual/ External Trigger	

Standard Accessories
Operating Instruction, Factory Inspection Report, Testing Cables, Power Supply Cables, Fuse, and Quality Guarantee.

Optional Test Functions and Accessories
<ol style="list-style-type: none"> <li>HV differential probe, Model No. :VCF-80, testing voltage: 8 kV, attenuation :1000:1</li> <li>HV current sensor CM 0220M</li> <li>PC control software CoreLab</li> </ol> <p>Support Windows XP and windows 7; easy to use, beautiful and direct-manipulation user interface; users can set self-defined test procedure through operation functions and standards test library and produce test reports flexibly.</p>



### **MAINLAND CHINA**

SUZHOU 3CTEST ELECTRONIC CO., LTD.  
Add.: No. 99 Emeishan Rd, SND, Suzhou 215153,  
Tel: +86 (0)512 6807 7192  
Fax: +86-512-68079795  
Email: [globalsales@3ctest.cn](mailto:globalsales@3ctest.cn)  
[www.3c-test.com](http://www.3c-test.com)

### **TAIWAN**

RICHTEC INSTRUMENTS CO., LTD.  
Add.: 6F.-5, No.130, Ln. 235, Baoqiao Rd., Xindian  
Dist., New Taipei City 23145, Taiwan, China  
Tel: +886 2 8912 1185 #10  
Email: [ryan@richtec.com.tw](mailto:ryan@richtec.com.tw)  
[www.richtec.com.tw](http://www.richtec.com.tw)

### **SOUTH KOREA**

TESTEK Co., LTD.  
Add.: 601Ho, SungwoonKoa, 141 Hyeonam-ro,  
Suji-Gu, Yongin-Si, Gyeonggi-Do, South Korea.  
Tel: +82 70 4099 2071,  
E-mail: [woo@testek.co.kr](mailto:woo@testek.co.kr)  
[www.testek.co.kr](http://www.testek.co.kr)

### **SINGAPORE**

QUANTEL PTE LTD.  
Add.: 25 Kallang Ave, #05-02, 339416, Singapore  
Tel: +65 6745 3200  
Email: [engtat.ong@sg.quantel-global.com](mailto:engtat.ong@sg.quantel-global.com)  
[www.quantel-global.com](http://www.quantel-global.com)

### **USA**

THE EMC SHOP  
Add.: 7401 Galilee Rd. #160, Roseville, CA 95678,  
USA  
Tel: +1 844 423 7435  
Email: [brendon.berg@theemcshop.com](mailto:brendon.berg@theemcshop.com)  
[www.theemcshop.com](http://www.theemcshop.com)

### **RUSSIA**

CDIP LLC  
Add.: Room 7, Building 5, House 69, Ryabinovaya  
Street, Moscow 121471, Russia  
Tel: +7 (495) 956 20 22  
Email: [info@cdip.ru](mailto:info@cdip.ru)  
[www.cdip.ru](http://www.cdip.ru)