

## High Voltage High-power Intelligent Lightning Surge Test System

### CWS 600G/SPN 15100T

### Datasheet



#### In Compliance with

- > IEC 61000-4-5
- > EN 61000-4-5
- > GB/T 17626.5
- > IEC 61000-6-1
- > IEC 61000-6-2

#### Introduction

CWS 600G/SPN 15100T is a specially designed system which can fully meet CE and CCC. The system has been built-in SPN 15100T three -phase five-wire high power fully automatic CDN to meet the requirements of new energy test system and high power load test with advantages of high reliability, stable performance and easy to use, etc. EUT high voltage high power load capacity is DC 1500 V 100 A, AC 700 V 100 A three phase five wire. Other EUT voltage and current levels can be customized according to customer's requirements.

#### Features

- > EUT DC load capacity: DC 1500 V 100 A
- > EUT AC load capacity: AC 700 V 100 A three-phase five wire
- > Semi-conductor switch technology, EUT power automatic switching over
- > EUT voltage and current detection
- > Overvoltage, over current and overheating protection
- > Setting test voltage, polarity and phase sync angle by scheduling and fully automatic network switching over
- > Phase angle superposition for any line

#### Application Areas

- |                    |                          |
|--------------------|--------------------------|
| > Communication    | > Information technology |
| > Telecom          | > Military               |
| > Medical          | > Aviation               |
| > Broadcast and TV | > New energy power       |
| > Railway          | > Electric Vehicle       |

Technical Parameters	
Combination wave simulator CWS 600G	
Test voltage range	0.3 Kv – 6 kV, (±10%)
Test current range	0.15 kA - 3 kA (±10%)
Voltage waveform	Front time: 1.2 μs±30% time to half value: 50 μs±20%
Current waveform	Front time: 8 μs±20% time to half value: 20 μs±20%
Source output impedance	2 ohm
Output polarity	+/-/alternate
Surge voltage	Surge voltage: 1000 V : 1 V surge current: 500 A :1 V
Current peak detection	LCD display the measured value with 3 digits IEC standard mode or self-defined mode
Coupling resistance	10 ohm, 0 ohm coupling resistance, IEC standard mode or self-defined mode
Pulse cycle	5 s – 99 s (The shortest depends on test voltage)
Test times	1-999
Trigger mode	Automatic, manual and external
Synchronization	0-360°, resolution 1° step or random

Network Module SPN 15100T	
Three-phase fully automatic Coupling/decoupling Network	Surge combination wave test, voltage up to 8.0 kV (1.2/50 μs) , current up to 4.0 kA (8/20 μs)
EUT load capacity	Peak value 400 A
EUT switching over mode	Auto switching over
Phase synchronization	L1、L2、L3、N、PE, arbitrary L-L, L-N phase angle superposition
Coupling paths	L1、L2、L3、N、PE, arbitrary combination path
Coupling switching over mode	Auto switching over
Coupling capacitance	9 μF、18 μF
Coupling resistance	10 ohm、0 ohm Optional for IEC standard mode or self-defined mode
Coupling attenuation	<2 dB
Residual pulse voltage at the injection of EUT	Less than 15% of applied test pulse voltage or 2 times rated voltage peak of coupling/decoupling network
Cabinet size	19"/35U
Weight	Approx.200 Kg

Accessories		
1.CDN 1pcs	4. Grounding wire	7. Factory inspection report
2.Three-core power cord	5. Fuse	8. User manual
3.Test wire	6. Coaxial cable	

Options
1.VCF-80 HV differential probe Max. test voltage 8 kV, attenuation ratio: 1000: 1, meet open circuit voltage waveform calibration for surge simulators
2.CM 0220M Wide-band Current Monitor Max. test current 5 kA, attenuation ratio: 100:1, meet short circuit current waveform calibration for surge simulators



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