

High voltage and high power intelligent lightning surge coupling/decoupling network **SPN 1020S**



In Compliance with

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

Introduction

SPN 1020S high-voltage high-power intelligent lightning surge coupling/decoupling network, fully automatic single-phase coupling/decoupling function, can meet AC/DC power supply, supporting CCS, CWS series of instruments, EUT load maximum capacity DC 1000V 20A, AC 700V 20A, Other EUT voltage and current levels can be customized according to customer requirements.

Features

- > EUT DC load capacity DC 1000V 20A;
- > EUT AC load capacity AC 700V 20A;
- > Semiconductor switching technology, EUT power automatic switching;
- > EUT voltage and current detection function;
- > Overvoltage, overcurrent protection function;
- > Test parameters such as test voltage, polarity, phase synchronization Angle, etc.
- > Scheduling Settings, to achieve automatic network switching function;
- > Arbitrary line phase Angle overlay function

Application Areas

- > Communication
- > Telecom
- > Medical
- > TV Broadcasting
- > Railway
- > IT
- > Military
- > Avionics
- > New energy power

SPN 1020S	
Single-phase Fully Automatic Coupling/Decoupling Network	Conform to the EN/IEC 61000-4-5 Lightning surge combined wave test, voltage up to 8.0kV (1.2/50us), current up to 4.0kA(8/20us)
EUT Load Capacity	Max AC 700V 20A 50/60Hz
	Max DC 1000V 20A
EUT Ability to Withstand Short-Time Impulse Current with Load	Peak 500A
EUT Switching Mode	automatic switching
Temperature Detection Function	Maximum allowable temperature: 80°C
Phase Synchronization	L, N, PE, any line-line, line-ground phase Angle superimposed 45-65Hz, 0°-360°, 1°Step setting or random mode
Coupling Path	Any combination path of L, N, and PE
Coupled Switching Mode	automatic switching
Coupling Capacity	9uF、18uF
Coupling Resistance	10 ohm、0 ohm The coupling resistance can be selected in IEC standard or custom mode
Coupling Attenuation	<2dB
EUT Residual Pulse Voltage at the Injection End	Not more than 15% of the applied test pulse voltage or twice the peak rated voltage of the coupling/decoupling network
Dimension	19"/6U
Weight	Approx 40Kg

Standard Accessories	
1. Coupling/Decoupling Network 1	5. Fuse
2. Three-Core Power Cord	6. Coaxial Line
3. Testing Line	7. Delivery Inspection Report
4. Ground Lead	8. User Manual

option	
CWS 600x	Combined lightning surge simulator meets IEC 61000-4-5 standards, Maximum pulse output 6.0kV (1.2/50us) , 3.0kA(8/20us)
CWS 800x	Combined lightning surge simulator, meet IEC 61000-4-5 standard, Maximum pulse output 8.0kV (1.2/50us) , 4.0kA(8/20us)
CCS 600x	Combined immunity tester, meet IEC 61000-4-5 standard, Maximum pulse output 6.0kV (1.2/50us) , 3.0kA(8/20us)
VCF-80	High voltage differential probe, The maximum test voltage is 8kV, Attenuation ratio: 1000:1, Meet the lightning surge instrument open circuit voltage waveform calibration
TR5025	High voltage current sensor, Maximum test current 20kA, Attenuation ratio: 100:1, Meet the lightning surge instrument short-circuit current waveform calibration



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