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HRWS

RING-WAVE-GENERATOR

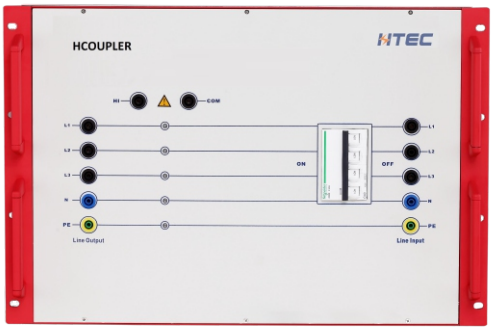
HRWS RING-WAVE-GENERATOR

Overview

The ring wave immunity simulation generator HRWG is a test equipment designed to simulate the high-energy oscillation of the power grid. This ring wave is usually induced when a large load in the power grid is connected and disconnected. The HRWG series ring wave simulator has a built-in single-phase coupling and decoupling network with a maximum current of 16A, and an external three-phase coupling and decoupling network with a maximum current of 200A.

The HRWG series host comes with a 7-inch touch screen computer program control, supports online firmware upgrade through the USB interface, and the user can also use a PC to achieve remote Control (LAN communication).

HRWS front view



3 phase CDN front view

Features

- 7-inch touch color screen, simple and generous UI, easy to operate
- Maximum output voltage 7.0kV/10.0kV
- Peak voltage and peak current detection
- Single-phase 16A & three-phase 32/64/100/200A CDN as option Full automatic control
- High-quality imported components, small size and light weight
- Individual test procedure and combination of programs can be edited
- Waveform：0.5us/100kHz
- Imperdance：12 Ω & 30 Ω
- Data line port coupling decoupling network, fully complies with IEC and ANSI standards
- Fully compatible, certified-level immunity test system

Applications

- IEC/EN 61000-4-12
- GB/T 17626. 12
- ANSI/IEEE C37.90
- ANSI/IEEE C62.41

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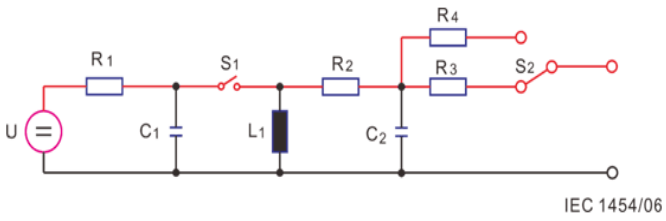
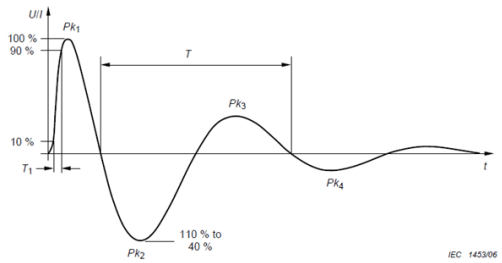
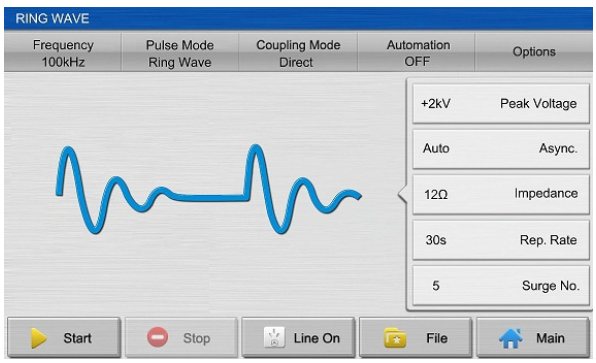
Output Voltage	HRWS 71 (0.2kV - 7.0kV)±10% HRWS 100 (0.5kV - 10.0kV)±10%	Oscillation Frequency	100kHz
Polarity	Positive/negative/alternate	Repetition rate	Up to 60 pulses/min
Output Impedance	12Ω/30Ω	Interval	1s - 9999s
Voltage rise time	0.5μs±30% (open circuit)	Current rise time	≤1μs (shot circuit)
Touch screen	7”800x480 24 bit	Attenuation rate	0.4<Pk2/Pk1<1.1 0.4<Pk3/Pk2<0.8 0.4<Pk4/Pk3<0.8
Size	482mmX556mmX365.5mm	Coupling /Decoupling Network	Build-in single phase 16A

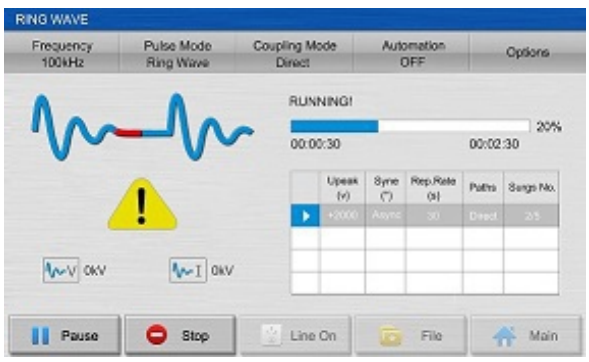
RWS Schematic diagram





Software GUI





HRWS Options and Accessories

Ordering No.	Product Name	Model	Description
41060100	HRES	HWRS 71	Ring wave:±7kV,0.5μs/100kHz,build in 1-phase CDN
41060200		HWRS 100	16A Ring wave:±10kV,0.5μs/100kHz,external CDN
41080520	CDN	RCDN 161P	Ring wave:±7kV, 1 Phase/16A,IEC / ANSI
41080530		HCOUPLER 16R	Ring wave:±7kV,3×480Vac/16A,IEC / ANSI
41080540		HCOUPLER 30R	Ring wave:±7kV, 3×480Vac/32A,IEC / ANSI
41080550		HCOUPLER 60R	Ring wave:±7kV, 3×480Vac/64A,IEC / ANSI
41080560		HCOUPLER 100R	Ring wave:±7kV, 3×480Vac/100A,IEC / ANSI
41080570		HCOUPLER 200R	Ring wave:±7kV, 3×480Vac/200A,IEC / ANSI
41080580	unshielded asymmetry coupling network	HCN 4R	Ring wave:±7kV,IEC 61000-4-12 Ed3.0 Figure 8, 4 lines
41080590	unshielded asymmetry decoupling network	HDEC 4R	4×20mH(non common mode choke),IEC 61000-4-12 Ed3.0
41080600	unshielded symmetry coupling network	HCN 8R	IEC 61000-4-12 Ed3.0 Figure 9,8 lines
41080610	unshielded symmetry decoupling network	HDEC 8R	4×20mH(common mode choke),IEC 61000-4-12 Ed3.0
41080620	High speed communication coupling decoupling network	HCNH 8R	IEC 61000-4-12 Ed3.0 Figure 10,8 lines,1000Mbit

The leader of EMC Test and Measurement

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Address : Fuhai • Bao'an • Shenzhen

Tel :+86 755-27210748

E-mail : office@htec-emc.com

Website : www.htec-emc.com