

Ring Wave Generator

RWG-126H 【Introduction】

The RWG-126H, is a ring wave generator with an output voltage that can reach up to 6kV. It is controlled by a full-color capacitive touchscreen and is equipped with a built-in three-phase coupling/decoupling network, providing a reliable and unified basis for users to conduct ring wave immunity tests in electromagnetic compatibility (EMC) testing. This generator simulates the interference of ring waves on the power ports, signal ports, and grounding ports of electrical and electronic equipment, evaluating the ability of the tested equipment to withstand these interferences and establishing a common, reproducible basis for assessment.

Compliance Standards

GB/T 17626.12 、 IEC 61000-4-12 、 EN 61000-4-12 (Optional external network based on ANSI C62.42 and ANSI C62.43)

Application Fields

Lighting Industry, Low-Voltage Electrical Industry, Renewable Energy Industry, Electric Power Industry, Energy Storage Industry

Technical Features

- ◆ 7" color capacitive touchscreen offers a user-friendly and powerful human-machine interface ;
- ◆ The interface allows for direct and rapid test program creation, enabling intelligent test operation ;
- ◆ Comprehensive communication interface design with standard RS485 serial port and LAN port ;
- ◆ Utilizes high-voltage, high-speed semiconductor switches to generate superior interference waveforms and characteristics ;
- ◆ Built-in IEC standard settings and user-defined settings for one-click test startup ;
- ◆ Switchable between Chinese and English interfaces, with a universal power supply design to meet testing needs of users in different regions.

Parameter List

Specification	RWG-126H	RWG-126H-C
Interference Type	Ringing Wave Immunity	
Output Voltage Polarity	Positive/Negative/Automatic Alternation Between Positive and Negative	
Output Voltage	100 V ~ 6 kV±10% 10 V step	
Output Impedance	Switchable between 12 Ω ± 10% and 30 Ω ± 10%	
Output Current	500 A ± 10% at 12 Ω; 200 A ± 10% at 30 Ω	
Time Interval	10 ~ 9999 s	
Coupling/Decoupling Network	Built-inCoupling/Decoupling Network Parameters	Optional External Coupling/Decoupling Network
Output Voltage Waveform	Front Edge: 0.5 μs±30%	CDN-5320H Series
Output Current Waveform	0.2 μs ~ 1 μs	
Voltage Oscillation Frequency	100 kHz±10%	
Attenuation	0.4 < PK2/PK1 < 1.1 0.4 < PK3/PK2 < 0.8 0.4 < PK4/PK3 < 0.8	
Injection Angle	0 ~ 359° ±10°, 1° step	
Capacity of EUT	AC three-phase 690 V/25 A DC 1000 V/25 A	
General Parameters		
Power Supply	AC 85 V ~ 264 V 50/60 Hz 120 W	
Display Interface	Color Touch Screen: Languages available in Chinese/English (optional)	
Host Computer Interface	485 Interface, LAN Interface	
Dimensions	4 U	
Instrument Weight	20 kg	

Temperature	15°C~ 35°C (operating conditions)
Humidity	30% ~ 60%(operating conditions)
Atmospheric Pressure	86 kPa ~ 106 kPa
Standard Accessories Included	Main unit, test cables, power cord, fuse, test report, user manual