

Fully-automatically Multi-functional Surge Testing Bench

CWS 2000

Datasheet



In compliance with

- > IEC61000-4-5
- > GB/T17626.5
- > GB/T16927.1
- > ITU K.21
- > ITU K.44

Introduction

The CWS series fully-automatically multi-functional surge testing bench is designed on the basis of third-generation intelligent programmable testing platform. Adopted programmable controller and computer technology, system composition is simplified, which greatly improve the system reliability. Unique color touch screen operating interface has friendly man-machine dialogue function. Easy operation makes kinds of testing carried out automatically only through setting testing requirement on page of parameter setup. The product has the advantage of highly integration level, control intelligentization, user-friendly operation and saving testing time.

Features

- > 5.7" color touch screen front panel
- > Judge kinds of failures automatically and with audible and visual alarm
- > Wide range output, minimum voltage up to 1 kV
- > LAN communication interface for remote control
- > Fully automatically CDNs are available optionally
- > Selectable current and voltage two-way peak acquisition and displayed on touch screen
- > 19" standard rack

Application Areas

- | | |
|-----------------|-------------------------------|
| > Communication | > Technology |
| > Telecom | > Military |
| > Medical | > Avionics |
| > Broadcast | > New Energy Electrical Power |
| > Railway | > New Energy Vehicles |

Combination Waveform (1.2/50 μ s & 8/20 μ s)	
Open-circuit Voltage	
Peak Voltage	1 kV \sim 20 kV ($\pm 10\%$)
Front Time	1.2 μ s ($\pm 30\%$)
Duration Time	50 μ s ($\pm 20\%$)
Short-circuit Current	
Peak Current	500 A \sim 10 kA ($\pm 10\%$)
Rise Time	8 μ s ($\pm 20\%$)
Duration Time	20 μ s ($\pm 20\%$)
Virtual Impedance	2 $\Omega \pm 0.25 \Omega$
Output Polarity	Positive/Negative
CDNs (Built-in/Externally)	Single/three-phase fully automatically CDNs are available optionally.

Voltage Waveform (1.2/50 μ s)	
Output Voltage	1 kV \sim 20 kV ($\pm 10\%$)
Output Impedance	500 $\Omega \pm 10\%$
Output Polarity	Positive/Negative
Output Voltage Waveform	1.2 μ s $\pm 30\%$, 50 μ s $\pm 20\%$

Current Waveform (8/20 μ s)	
Charging Voltage	2 kV \sim 10 kV
Output Voltage Waveform	8 μ s $\pm 20\%$, 20 μ s $\pm 20\%$
Output Impedance	0.5 Ω
Output Short-circuit Current	4 kA \sim 20 kA $\pm 10\%$

Communication Waveform (10/700 μ s)	
Output Voltage	1 kV \sim 10 kV ($\pm 10\%$)
Output Impedance	15 Ω , 40 Ω (25 $\Omega \pm 15 \Omega$)
Output Polarity	Positive/Negative
Output Voltage Waveform	10 μ s $\pm 30\%$, 700 μ s $\pm 20\%$
Output Current Waveform	5 μ s $\pm 20\%$, 320 μ s $\pm 20\%$

Note: the functions above are available on customer request.

General Parameters	
Working Power Source	AC 110 V/220 V ($\pm 10\%$), 50/60 Hz (AC 220 V in Mainland China)
Ambient Temperature	15°C-35°C
Relative Humidity	45%-75%
Atmospheric Pressure	86 kPa-106 kPa
Grounded Resistance	Not exceeding 0.5 Ω
Dimension	19"/35 U (600 mm \times 800 mm \times 1850 mm)
Weight	Approx. 200 kg

Options	
Oscilloscope	MDO 3012
Wide-band Current Monitor	CM 0220M
Voltage Probe	Tektronix P 6015A
Control Software	Corelab for remote control, operating in windows xp, windows7
Measurement Software	MAS 3000
CDNs	SPN 3016SA20 Single-phase coupling/decoupling networks AC 300 V, 16 A



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