

Fully-automatically Multi-functional Surge Testing Bench

CWS 3000M

Datasheet



In compliance with

- > IEC 61000-4-5
- > GB/T 17626.5
- > GB/T 16927.1
- > 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 up 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 2 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
- > Telecom
- > Medical
- > Broadcast
- > Railway
- > Technology
- > Military
- > Avionics
- > New Energy Electrical Power
- > New Energy Vehicles

Combination Waveform CWM 3000CW	
Open-circuit Voltage	
Peak Voltage	2 kV ~30 kV ($\pm 10\%$)
Front Time	1.2 μs ($\pm 30\%$)
Duration Time	50 μs ($\pm 20\%$)
Short-circuit Current	
Peak Current	1 kA~15 kA ($\pm 10\%$)
Rise Time	8 μs ($\pm 20\%$)
Duration Time	20 μs ($\pm 20\%$)
Virtual Impedance	2 $\Omega \pm 0.25 \Omega$
Output Polarity	Positive/Negative
CDNs (Externally)	Single/three-phase fully automatically CDNs are available optionally

Voltage Waveform CWM 3000V	
Output Voltage	1 kV ~30 kV ($\pm 10\%$)
Output Impedance	500 $\Omega \pm 10\%$
Output Polarity	Positive/Negative
Output Voltage Waveform	1.2 $\mu\text{s} \pm 30\%$, 50 $\mu\text{s} \pm 20\%$

Current Waveform CWM 3000C	
Charging Voltage	2 kV ~15 kV
Output Current Waveform	8 $\mu\text{s} \pm 20\%$, 20 $\mu\text{s} \pm 20\%$
Output Impedance	0.5 Ω
Output Short-circuit Current	4 kA~30 kA $\pm 10\%$

Communication Waveform CWM 1000T	
Output Voltage	1 kV ~10 kV ($\pm 10\%$)
Output Impedance	15 Ω , 40 Ω (25 Ω + 15 Ω)
Output Polarity	Positive/Negative
Output Voltage Waveform	10 $\mu\text{s} \pm 30\%$, 700 $\mu\text{s} \pm 20\%$
Output Current Waveform	5 $\mu\text{s} \pm 20\%$, 320 $\mu\text{s} \pm 20\%$

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 $^{\circ}\text{C}$ - 35 $^{\circ}\text{C}$
Relative Humidity	45%-75%
Atmospheric Pressure	86 kPa-106 kPa
Grounded Resistance	Not exceeding 0.5 Ω
Dimension	19"/35 U (600 mm x 800 mm x 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
Measurement Software	MAS 3000
CDNs	SPN 3820TA30 three-phase coupling/decoupling networks AC 380 V, 20 A



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