



MAIN FEATURES

- **8,000 V Burst voltage**
- **Built-in single or three phase CDN**
- **Spike frequency 1MHz**
- **Easy to use 7" color touch screen**
- **Parameters can be changed while test is running**
- **Opto-Link and Ethernet for remote control**
- **Wide range of optional test accessories**

burst NX8 series
Electrical fast transient generator

The burst NX8 is the state-of-the-art EFT/Burst tester with a built-in coupling/decoupling network for single phase or three-phase mains supply lines and a HV terminal to connect a capacitive coupling clamp. The spike frequency can be varied from as low as 100Hz to 1,000kHz. The burst NX8 is capable to generate up to 1,000 spikes per second.

Its performance complies with IEC 61000-4-4:2004, IEC 61000-4-4 Amd.1 Ed.2:01/2010 and IEC 61000-4-4 Ed.3: 03/2012. Pre-programmed Standard Test routines and a number of selected User Test routines make the burst NX8 an optimum standalone solution for both testing during development and final testing of products and sub-assemblies.

Models

burst NX8-1-400-16	With 1-phase coupler, 400 V / 16 A AC
burst NX8-1-400-32	With 1-phase coupler, 400 V / 32 A AC
burst NX8-3-690-16	With 3-phase coupler, 690 V / 16 A AC
burst NX8-3-690-32	With 3-phase coupler, 690 V / 32 A AC
burst NX8-1-400-16.1	With 1-phase coupler, 400 V / 16 A AC, 1,000 V / 16 A DC
burst NX8-1-400-32.1	With 1-phase coupler, 400 V / 32 A AC, 1,000 V / 32 A DC
burst NX8-3-690-16.1	With 3-phase coupler, 690 V / 16 A AC, 1,000 V / 16 A DC
burst NX8-3-690-32.1	With 3-phase coupler, 690 V / 32 A AC, 1,000 V / 32 A DC

Technical Specifications

Voltage range	500 V - 8,000 V
Into 50 ohm	250 V - 4,000 V
Pulse shape	5/50 ns into 50 ohm load
Rise time tr	5 ns ± 30 %
Pulse width td	50 ns ± 30 %
Pulse shape	5/50 ns into 1,000 ohm load
Rise time tr	5 ns ± 30 %
Pulse width td	35 ns to 150 ns
Source impedance	50 ohm ± 30 %
Polarity	positive / negative

General Specifications

Trigger	
Automatic	Automatic release of the bursts
Manual	Manual release of a single pulse
External	External release of a single pulse
Burst duration	Td = 0.10 ms - 999.9 ms
Burst repetition rate	Tr = 10 ms - 9,999 ms/man Tr <= 9,999 ms => Auto Trigger Tr > 9,999 ms => Man Trigger
Spike frequency	f = 1 Hz - 1,000 kHz
Test duration	T = 1 s - 99,999 s T = 1 min - 1,600 min Endless

Output	
Direct	Via HV coax connector
Coupler	1 phase: L, N, PE, all combinations 3 phase: L1, L2, L3, N, PE, all combinations DC: Plus, Minus, PE, all combinations
EUT supply AC	1 phase: 400 V / 16 or 32 A AC, 50/60 Hz 3 phase: 3 * 690 V / 16 or 32 A AC, 50/60 Hz
EUT supply DC (*.1 models only)	1,000 V / 16 or 32 A DC
CRO Trigger	5 V trigger signal for oscilloscope; burst duration and pulse frequency can be checked

General Data	
Dimensions, weight	19" / 6 HU, 448 mm x 289 mm x 550 mm, 23 - 27.5 kg, depending on the model
Supply voltage	85 - 264 V AC
Fuses	115 V: 2 * 4 A (slow blow) 230 V: 2 * 2 A (slow blow)
Power	max. 95 W, 0.42 A, avg. 35 W, 0.15 A
Temperature	10 °C to 35 °C
Humidity	30 % to 75 %, non condensing
Atmospheric pressure	86 kPa (860 mbar) to 106 kPa (1,060 mbar)

Interfaces	
Serial interface	2 * USB A for memory stick, 1 * USB B for service only, Opto-Link to USB for remote
LAN	Ethernet for remote
Sys.link	26 pin high density connector
Fail inputs	EUT monitoring via input (one each) EUT Monitor 1 EUT Monitor 2

Options

CCI	Coupling clamp as per IEC 61000-4-4
CCI PVKIT 1	Calibration set for the CCI as per IEC 61000-4-4 Ed. 3 including PVF AD 3. Requires additional PVF 50
PVF 50	50 ohm matching resistor for verification
PVF 1000	1,000 ohm matching resistor for verification
PVF BKIT 1	Pulse verification kit fat Burst consisting of: PVF 50, PVF 1000, PVF AD 1-adapter (MC to SHV (m))
Safety Circuit Adapter	SSC AD (Sys.Link), Interlock for external safety loop. Replaces SCT safety circuit terminator
iec.contro1-NX	Software to control the test, including standard library, test report facility and data conversion generator