



MAIN FEATURES

- **8,000 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 |