



NSG 3150 THE MOST COMPACT SOLUTION FOR 15 KV SURGE



- Surge voltage up to 15 kV
- IEC/EN 61000-4-5 compliant
- CDN range: Single & Three Phase, up to 63 A, 690 VAC, 1000 VDC
- Safest 15 kV connector type on the market
- Most compact 15 kV Surge testing solution in the world
- Quickly launch tests from extensive Standards Library or User Test folders
- Easy-to-operate 7" touchscreen color display

TESEQ's new NSG 3150 15 kV Combination Wave Surge generator sets a new standard in the industry and represents the perfect solution for your immunity tests in compliance with IEC/EN 61000-4-5. Unique NSG 3150 capabilities enable users not only to perform tests according to exact standard requirements, but also to go beyond. The flexible repetition time setting which enables a significant reduction of test times is only one of many examples.

The perfect solution for outdoor applications, the new NSG 3150 is used to test lighting, communication and energy distribution equipment, railways and protection systems and relays (e.g. IEC 60255-26). The 15kV surge pulse voltage allows manufactures to reach new quality levels, which helps them to outperform competitors.

Safety first: One of TESEQ's top priorities is to assure safe operation of its equipment – the NSG 3150's innovative surge pulse plugs and the unique connector protection door brings the safety of 15 kV applications on a new level. Of course an interlock and warning lamp control terminal round up the numerous safety features.

Full performance – but compact: TESEQ is proud to offer the most compact 15 kV Combination Wave Surge generator on the market while featuring a leading performance. Among other ground breaking innovations, the NSG 3150's innovative relay design enables it to fit in a compact 19" housing with a height of only 7 U – saving precious space in your lab!

A 7" touch panel display with superb contrast and colour makes controlling the NSG 3150 just as easy as the rest of the well established 3000 series generators. For fast and efficient data entry, input devices include an integrated keyboard and a thumbwheel with additional keys for sensitivity adjustment. To achieve quick, reliable results in a development environment a standardized test can be initiated with just a few taps using the integrated Test Assistance (TA) function.

The NSG 3150 has an Ethernet port for external PC control. The Windows-based Win 3000 control software simplifies test programming and compilation of complex test sequences with various types of tests. Test reports can be generated during the test operation, allowing the operator to enter observations as the test progresses and increasing the efficiency of long-term tests.

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Combination wave pulse 1.2/50 - 8/20 µs (Hybrid-Surge pulse)

Pulse conforms to IEC/EN 61000-4-5

Parameter	Value
Pulse voltage (open circuit):	±500 V to 15 kV (in 1 V steps)
Pulse current (short circuit):	±250 A to 7.5 kA
Impedance:	2/12 Ω
Polarity:	positive / negative / alternate
Pulse repetition:	20* 600 s (in 1 sec steps) 1 10 min.
Test duration:	1 to 9999 pulses, continuous
Phase synchronization:	asynchronous, synchronous 0 to 359° (in 1° steps)
Coupling:	IEC / external

* See User Manual for derating info

Technical specification	
Instrument supply	85 to 265 VAC, 50/60 Hz
Dimensions NSG 3150 WxHxD	449 (17.7") x 328 (12.9"; 7 HU) x 565 mm (22.2")
Weight NSG 3150	Approx. 40 kg (88 lbs)

Options Type	Description
CDN 117/118	Coupling networks for signal-/data lines (surge)
CDN HSS-2	Coupling network for 2 kV surge pulse 1.2/50 µs IEC/EN 61000-4-5 on unshielded symmetrical high speed telecom lines (Ethernet)
CDN 3153-S63	Three phase automatic coupling network, 63A / 690VAC / 125VDC
INA 3151	1000 VDC / 63A Option

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