



# INA 6502 AUTOMATIC STEP TRANSFORMER



- Integrated function unit to NSG 3000 system
- Power line dips to 0%, 40%, 70% and 80%
- Complies with EN/IEC 61000-4-11
- Includes EUT power control switch

The automatic step transformer type INA 6502 is a standard accessory for the Teseq's NSG 3000 instrumentation series. It enables the ac power supply voltage, which is fed to the EUT, to be set to 0%, 40%, 70% or 80% of UIN under program control.

The INA 6502 complies with the requirements of EN/IEC 61000-4-11 for voltage dips and undervoltages. A large number of product standard specifications can be fully met as they do not ask for continuous and arbitrary voltage variations.

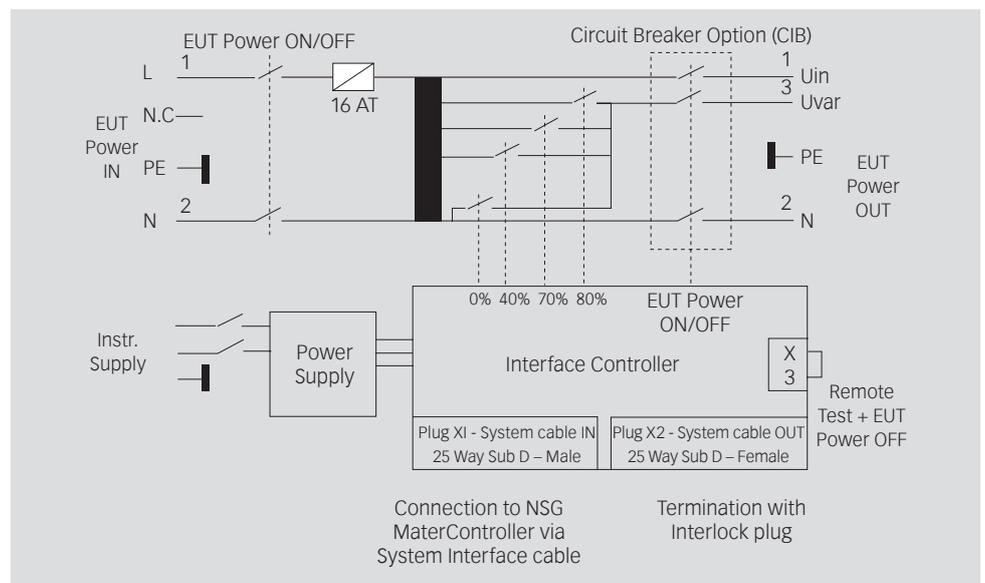
The device is connected to the NSG 3000 series generator via the system cable and is fully embedded in the configuration management concept, the software control and the report mechanism.

The voltage steps, UVAR, are programmed as a percentage of the power line voltage over the touch screen menu or by means of the WIN 3000 remote control software. The updated version of WIN 3000 includes preprogrammed tests using the INA 6502 for the basic standard.

A circuit breaker is incorporated into the housing of the INA 6502. This allows the on/off switching of the power to the EUT at any moment via the user interface or automatically under program control.

The step transformer is designed into a sturdy aluminum housing fitted with convenient handles. In applications the INA 6502 can be used in any position and may even be placed under the test bench if the space on the set-up becomes limited.

### Block diagram



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## Technical specifications:

Input voltage UIN:	Up to 250 VAC, 50/60 Hz (not suited for DC voltages)
Output voltage UVAR:	4 steps: 0% - 40% - 70% - 80% of UIN
Accuracy:	±5%
Voltage change with load:	100% output, 0 to 16 A    less than 5% 80% output, 0 to 20 A    less than 5% 70% output, 0 to 23 A    less than 5% 40% output, 0 to 40 A    less than 5%
Output current capability at 230 V input voltage:	16 Arms at 100% output 20 Arms at 80% output, for 5 s 23 Arms at 70% output, for 3 s 40 Arms at 40% output, for 3 s
Voltage selection:	Touch screen user interface or WIN 3000 remote control software
EUT power ON/OFF function:	Front panel switch with power ON indicator circuit breaker operated by NSG 3000 user interface
Fuse:	16 A, slow-blow
Connectors:	Harting type HAN3A, compatible with NSG 3000 safe power linking concept
Possible extensions:	Connector for optional remote EUT power-off switch, interlock connection to door switch
Instrument supply:	Selectable 100 to 110 VAC, 220 to 250 VAC, 15 VA, 47 to 63 Hz
Dimensions:	L x W x H 460 x 200 x 160 mm (18.1 x 7.9 x 6.3")
Weight:	15 kg (33 lbs) approx.
Cable:	Power network receptacle to INA 6502 ~2 m (~79") (uses input cable delivered with NSG 3000 mainframe), INA 6502 to NSG 3000 EUT power input ~2 m (~79")
Control cable:	2 m (79"), 25 way sub D, twisted pair, shielded (included in delivery)

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