TEST SOLUTIONS FOR HV-COMPONENTS.

With the EM TEST NetWave solutions it is possible to test HV components up to 1120 VDC according to LV 123. Additionally, the LF amplifier AMP 200Nx uses the CN 200Nx to couple voltage ripples up to 450 kHz to the supply lines for standards like LV 123, iA50 7637-4, and more. HV component testing is supported by net.control software, which enables easy, fast and reproducible testing.

STANDARDS:
- LV 123, VW 80300, MBN LV 123.
- PSA 821 7110, WW 80303, GS 95023

STANDARDS 2 SOLUTIONS

SOLUTION 1
- NETWAVE 3-PHASE
  - Multifunctional AC/DC power source
  - Wide Power Bandwidth, DC-5 kHz
  - Output power up to 270 kVA, 324 kW DC
  - Output voltage up to 3*690 V AC (p-p), ±1120 V DC
  - Power recovery up to nominal power
  - Parallel mode
  - More than 30,000 pre-programmed standard voltage profiles
  - Customized profiles
  - Easily create test sequences with flowchart editor and test link

- NET CONTROL
  - LF Signal & Amplifier DC (0 Hz) to 250 kHz/500 kHz
  - Automatic closed loop test procedures
  - Built-in DDS sinus signal generator up to 250 kHz
  - High frequency option up to 500 kHz
  - Output voltage max. ±140 V p-p, ±50 V rms
  - Output current max. 16 A

- AMP 200NX-SERIES
  - LF Signal & Amplifier DC (0 Hz) to 250 kHz/500 kHz
  - Automatic closed loop test procedures
  - Built-in DDS sinus signal generator up to 250 kHz
  - High frequency option up to 500 kHz
  - Output voltage max. ±140 V p-p, ±50 V rms
  - Output current max. 16 A

- CN 200NX-SERIES
  - Audio Transformer for LF conducted immunity testing
  - Coupling sinusoidal disturbance from 10 Hz to 500 kHz on AC and DC lines
  - Rated current up to 300 A
  - For applications up to 1500 VDC

SOLUTION 2

- PFS 503NX.2-SERIES COUPLING NX-SERIES
  - Power Fail Simulator
  - Full compliance Harmonics & Flicker analyzer
  - Synchronization with 3-phase Network
  - Real-time data acquisition
  - Internal hard disk for data storage
  - 16-bit A/D converter up to 250 kHz
  - Wide range current input up to 16 A
  - Wide range voltage input up to 330 V rms
  - Highly sophisticated analysing
  - Power Fail Simulator up to 5 kV for EFT/Burst, Surge and Powerfail
  - Built-in single phase CDN 400V / 32 A
  - Full compliant 3-phase system as per IEC 61000-4-11 and IEC 61000-4-34 for testing star and delta systems
  - Rated voltage up to 3*690 V AC, 600 VDC
  - Transient Generator up to 5.5 kV for EFT/Burst, Surge and Powerfail
  - Built-in single phase CDN 400V / 32 A
  - Full compliant 3-phase system as per IEC 61000-4-11 and IEC 61000-4-34 for testing star and delta systems
  - Rated voltage up to 3*690 V AC, 600 VDC

- COMPACT NX-SERIES
  - Compact 3-phase coupling/decoupling networks for burst and surge testing up to 5.5 kV
  - Continuous operation up to 200 A
  - Continuous operation up to 1000 V DC
  - Automatic coupler available for 3*690 V AC, 1000 V DC

SOLUTION 3

- DPA-SERIES
  - Power Fail Simulator
  - Full compliance Harmonics & Flicker analyzer
  - Synchronization with 3-phase Network
  - Real-time data acquisition
  - Internal hard disk for data storage
  - 16-bit A/D converter up to 250 kHz
  - Wide range current input up to 16 A
  - Wide range voltage input up to 330 V rms
  - Highly sophisticated analysing
  - Power Fail Simulator up to 5 kV for EFT/Burst, Surge and Powerfail
  - Built-in single phase CDN 400V / 32 A
  - Full compliant 3-phase system as per IEC 61000-4-11 and IEC 61000-4-34 for testing star and delta systems
  - Rated voltage up to 3*690 V AC, 600 VDC
  - Transient Generator up to 5.5 kV for EFT/Burst, Surge and Powerfail
  - Built-in single phase CDN 400V / 32 A
  - Full compliant 3-phase system as per IEC 61000-4-11 and IEC 61000-4-34 for testing star and delta systems
  - Rated voltage up to 3*690 V AC, 600 VDC

AND FOR CHARGING STATIONS.

With the addition of a charger, an EV no longer only needs to be tested as a vehicle. As part of the type approval process, ECE Reg. 10.5 now defines that these vehicles, or their associated charging stations must now be tested for Flicker and Harmonics, Burst, Surge and more – just as any other device that is connected to the public electricity grid. With the EM TEST new NX-series, couplers and accessories it is possible to test charging stations up to 3 * 690 V AC, 200 A AC, 1500 V DC, 400 A DC.

STANDARDS:
- ECE R-10, IEC 61851, IEC 61000-3-2, -3, IEC 61000-3-11, -12, IEC 61000-4-4, IEC 61000-4-5

STANDARDS 2 SOLUTIONS

SOLUTION 1
- DUT
- SOLUTION 1
- DUT

SOLUTION 2
- DUT
- SOLUTION 2
- DUT

SOLUTION 3
- DUT
- SOLUTION 3
- DUT
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