

TEST SOLUTIONS FOR E-VEHICLES

TEST EQUIPMENT FOR HV COMPONENTS AND CHARGING STATIONS



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, I aSO 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, VW 80303, GS 95023

SOLUTION 1



NET.CONTROL

> More than 30,000

voltage profiles

test link

> Customized profiles

pre-programmed standard

> Easily create test sequences

with flowchart editor and

> Import and Export of

voltage waveforms

> Fast configuration of

customized test reports

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
(triples nominal current)



SOLUTION 2



(03) AMP 200NX-SERIES

> Automatic closed loop test



> Rated current up to 300 A

AND FOR **CHARGING STATIONS.**



charging stations up to 3 * 690 V AC, 200 A AC, 1500 V DC, 400 A DC. 3-3 / -11 up to 75 A/phase.

STANDARDS:

ECE R-10, IEC 61851, IEC 61000-3-2, -3,

SOLUTION 3



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

The powerful, programmable NetWave solutions act both as an AC/DC source, and are ideally suited to perform Harmonics and Flicker measurements according to IEC 61000-3-2/-12, IEC 61000-

IEC 61000-3-11, -12, IEC 61000-4-4, IEC 61000-4-5



(07)
COMPACT NX-SERIES
Transient Generator
up to 5.5 kV for EFT/Burst,
Surge and Powerfail
> Built-in single phase
CDN 400V / 32 A
> Self-recognition of connected
EUT power configuration
> Manual front panel operation
with setup pictures
> Monitor outputs for
peak voltage and current

COUPLING NX-SERIES

(08)

Combined 3-phase coupling/
decoupling networks for burst
and surge testing up to 5.5 kV
> Continuous operation 0-200 A
> CDN with additional current ranges
< 32 A, 63 A, 125 A and 200 A
> Automatic coupler available for
3 * 690 V AC, 1000 V DC
> Manual coupler for burst and surge
available for 1500 V DC
and 400 A DC



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