

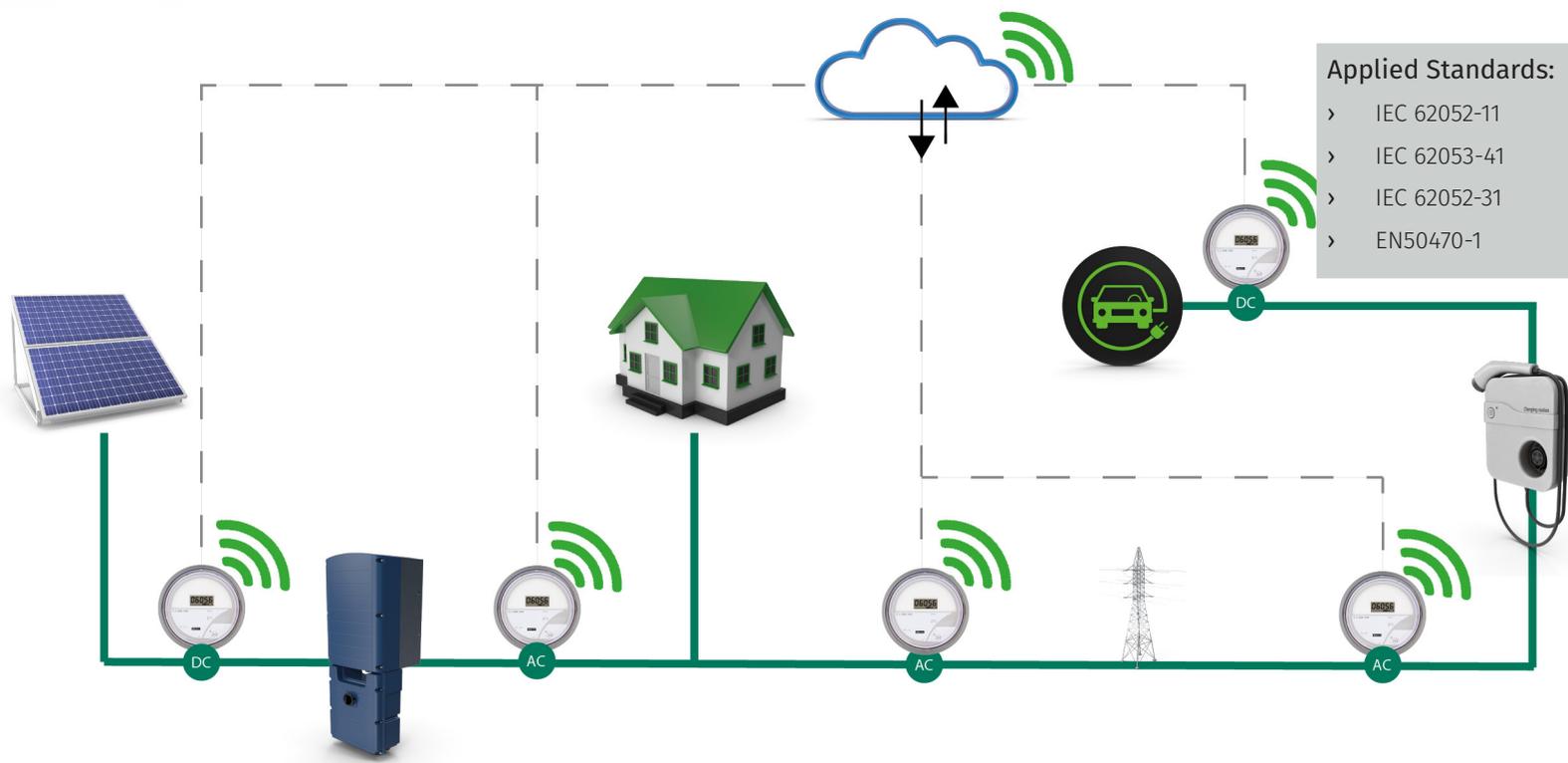
EMC PARTNER APPLICATIONS  
**Electricity Meters**



# ELECTRICITY METERS



EMC PARTNER offers a complete and extensive test solutions from one hand to perform all conducted immunity impulse tests including EFT/Burst, Surge, DOW, differential mode and insulation tests with respect to digital electricity meters and smart meters used in smart grids.



## Test Types

- › ESD as per IEC 61000-4-2
- › EFT transients as per IEC 61000-4-4
- › Surge as per IEC 61000-4-5
- › Ring Wave as per IEC 61000-4-12
- › Damped Oscillatory Wave as per IEC 61000-4-18
- › AC Dips and Interruptions as per IEC 61000-4-11 and IEC 61000-4-34
- › DC Dips and Interruptions as per IEC 61000-4-29
- › Differential mode test as per IEC61000-4-19
- › AC Magnet fields test as per IEC 61000-4-8
- › 1.2/50µs, 0.5J insulation test as per IEC 62052-31
- › 0.1/2000µs insulation test as per EN 50471-1



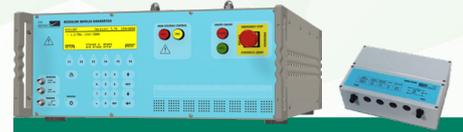
### IMU-MGE

Compact generator for EFT/Burst, CWG, Ring Wave up to 8KV. Integrated 16 A CDN. Extendable with ESD.



### DOW-CG1

Compact generator for Damped Oscillatory Wave testing. Integrated three phase CDN for Slow & Fast waves. Integrated three phase 30 A CDN & 1.2/50µs impulse insulation tester.



### MIG1203STEP / NW-NMI-M6C3C4

Impulse generator 1.2/50µs lightning impulse up to 12kV with special circuit to allow fast risetime impulses. 9 Joule Test @10kV & @12kV is possible in combination with the NW-NMI-M6C3C4.



### MIG1803 / NW-01-2000

1.2/50µs lightning impulse generator up to 18 kV with 40 Ohm impedance. High voltage outputs on top plate protected by TC-ST test cabinet. 0.1/2000µs impulse is as well possible in combination with NW-01-2000.



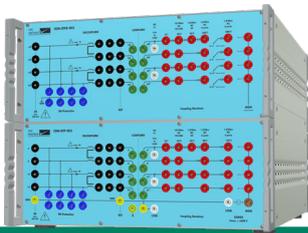
### COUPLING/DECOUPLING NETWORKS CDN-A / CDN-M

CDN with voltage capability up to 690 Vac per phase, 1500 Vdc and selectable current ranges up to 200A.



### AC DIPS & INTERRUPTS PFS/SRC

3-Phase dips generator and transformer suitable for both star and delta connections with selectable dips levels.



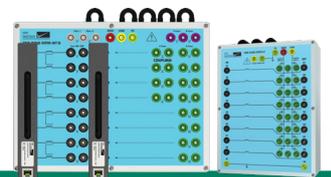
### CDN-UTP8 ED3

CDN-UTP8 ED3 is a compact manually operated coupling devices enabling testing for many standards. Combination Wave (CWG) for IEC 61000-4-5, Ringwave for IEC 61000-4-12 and 10/700 telecom according to ITU-T K44.



### SLAVE SMART I1

IMU SLAVE SMART I1 is current test generator in the frequency range 2kHz to 150kHz including CW and MODULATED disturbance source, CDN for VOLTAGE circuits, REFERENCE meter connections and a 25A current source. Direct control from IMU series interfaces.



### CDN-DOW-DATA-HF18 / CDN-DOW-DATA-LF

Coupling and Decoupling Network for IEC 61000-4-18. Test with 100 kHz and 1 MHz DOW onto Low and Highspeed Datalines.

### MORE OPTIONS & COMFORT



- > Coil for magnetic field up to 500A/m
- > EFT coupling clamp for signal lines
- > Programmable power source
- > Safety accessories
- > And much more...

### TEMA3000 - SOFTWARE TEST SUITE



Create and manage tests and sequences. Integrate DSO measurements in professional reports. Import and export Test Setups and Sequences. Smart test functions and predefined Test Library.



APPLICATION  
INFORMATION

For further information please do not hesitate to contact your local EMC PARTNER AG representative.  
Visit our website for more information and contact details.

# [www.emc-partner.com](http://www.emc-partner.com)



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