

THE NEW CDN SERIES

Coupling & Decoupling Networks

Preliminary version 2.1.

EMC PARTNER reserves the right to change content and technical characteristics of products at any time without prior notification.



Accredited Calibration

Quality at EMC PARTNER is based on an ISO 9001 management system. This is the foundation for an ISO 17025 accreditation verified by the Swiss Calibration Service (SCS). SCS No. 146 is the accreditation number of EMC PARTNER AG. Locally accredited but recognized worldwide through affiliation with the ILAC organization.

MANY OPTIONS ONE CHOICE

The new CDN line from EMC PARTNER is another ground-breaking advance in EMC technology. With standard EUT voltage 3 x 690V AC and options up to 1500 V DC, the new CDN line from EMC PARTNER is the future of EMC testing.

Electric vehicle



ECE R.10 testing made easy?

- ECE-R10
- IEC 61851-21-1
- IEC 61851-21-2
- IEC 61980-1

Railway



Stay on track with CDNs for higher EUT voltage & current

- EN 50121-3-2
- EN 50121-4

Power distribution



Testing power station equipment improves quality

- IEC 61000-6-5
- IEC 60255-27

Telecom



High EFT & surge test levels for telecom power lines

- ITU-T K.20
- ITU-T K.21

The new CDN line offers highest test levels combined with highest EUT voltages available in the market, allowing a precise tailoring of options to meet both technical requirements and budget. Request a quotation now!

Already have a CDN and want to add functions after purchase?

Ask for details: sales@emc-partner.ch

ABSOLUTELY AMAZING!

THE NEW CDN LINE



Unique capabilities

Impulse test levels up to max. 7.6 kV (Surge and Ring wave) and up to max. 7.1 kV EFT.

Excellent decoupling

Surge residual voltage typically < 12 % from test level and EFT residual voltage typically < 5 % from test level.

Highest EUT voltage supported

EUT supply voltage up to 3 x 690 V (standard for all CDNs) and up to 1500 V DC (when required). Current up to 200 A.

Truly flexible, subsequently upgradeable

Options can be ordered with a new CDN or upgrades can be added after purchase.

EUT and supply connectors included

Connectors for all CDNs (EUT and supply side) included in delivery.

Fully compliant with a single CDN

Full Range option enables only one CDN to meet all waveform requirements for EUT current from 0 A to max. chosen, as required in IEC61000-4-5 Ed. 3.

Ready for railway testing

Optional 40 Ω / 0.5 μF network (6 kV and 8 kV version) for railway apparatus testing as per EN 50121.

Ready for EV testing

Optional diode-resistor modules are built as per AMD 1 of IEC61000-4-5 Ed. 3. Testing inverters, DC-DC converters, EVs and charging stations, other renewable energy systems has just become much easier.

Multicolour coupling path indication

Coupling path indication on automatic CDNs with latest multicolour LED technology.

Higher EUT current CDNs on demand

Need higher EUT current? We offer custom solutions for specific applications.

Technical specifications

CDN MODELS AND OPTIONS

max. 4/6 kV

CDN-M-6-32
OPT-M-6-32 1000V DC
OPT-M-6-32 RWG
PROT32-AC690
PROT32-DC500
PROT32-DC1000
DC-DC32
CN-R40C05
CDN-A-6-32
OPT-A-6-32 1000V DC
OPT-A-6-32 1500V DC
OPT-A-6-32 RWG
PROT32-AC690
PROT32-DC500
PROT32-DC1000
PROT32-DC1500
OPT-A-6-32 ANSI
DC-DC32
CN-R40C05
CDN-A-6-63
OPT-A-6-63 1000V DC
OPT-A-6-63 1500V DC
OPT-A-6-63 RWG
PROT63-AC690
PROT63-DC500
PROT63-DC1000
PROT63-DC1500
OPT-A-6-63 ANSI
OPT-A-6-63 FULL RANGE
DC-DC63
CDN-A-6-125
OPT-A-6-125 1000V DC
OPT-A-6-125 1500V DC
OPT-A-6-125 RWG
PROT125-AC690
PROT125-DC500
PROT125-DC1000
PROT125-DC1500
OPT-A-6-125 ANSI
OPT-A-6-125 FULL RANGE
DC-DC125
CDN-A-6-200
OPT-A-6-200 1000V DC
OPT-A-6-200 1500V DC
OPT-A-6-200 RWG
PROT200-AC690
OPT-A-6-200 ANSI
OPT-A-6-200 FULL RANGE
DC-DC200

max. 8 kV

CDN-M-8-32
OPT-M-8-32 1000V DC
OPT-M-8-32 RWG
PROT32-AC690
PROT32-DC500
PROT32-DC1000
DC-DC32
CN-R40C05 8
CDN-A-8-32
OPT-A-8-32 1000V DC
OPT-A-8-32 1500V DC
OPT-A-8-32 RWG
PROT32-AC690
PROT32-DC500
PROT32-DC1000
PROT32-DC1500
OPT-A-8-32 ANSI
DC-DC32
CN-R40C05 8
CDN-A-8-63
OPT-A-8-63 1000V DC
OPT-A-8-63 1500V DC
OPT-A-8-63 RWG
PROT63-AC690
PROT63-DC500
PROT63-DC1000
PROT63-DC1500
OPT-A-8-63 ANSI
OPT-A-8-63 FULL RANGE
DC-DC63
CDN-A-8-125
OPT-A-8-125 1000V DC
OPT-A-8-125 1500V DC
OPT-A-8-125 RWG
PROT125-AC690
PROT125-DC500
PROT125-DC1000
PROT125-DC1500
OPT-A-8-125 ANSI
OPT-A-8-125 FULL RANGE
DC-DC125
CDN-A-8-200
OPT-A-8-200 1000V DC
OPT-A-8-200 1500V DC
OPT-A-8-200 RWG
PROT200-AC690
OPT-A-8-200 ANSI
OPT-A-8-200 FULL RANGE
DC-DC200

7 kV manual EFT CDN

CDN-F-125

4/6 KV CDNS

1.1 Manual CDNs and options (4/6 kV)

CDN-M-6-32

Standards	IEC61000-4-4, IEC61000-4-5, other
Can be upgraded for	IEC61000-4-12 (for ANSI see automatic version)
Type	3-ph., manual
EUT voltage AC	max. 3 x 690V L-L, 50 / 60 Hz
EUT current AC	max. 3 x 32A (covers 0 – 32 A as per standard)
EUT voltage DC	max. 500V (can be upgraded, see options)
EUT current DC	max. 32A (covers 0 – 32 A as per standard)
Current flow	bi-directional (source to EUT and EUT to source)
Test level EFT (as per IEC)	max. 6 kV
Test level surge (as per IEC)	max. 6 kV
Surge waveform	as required for current EUT range 0 – 32A
Residual voltage	typically < 5 % for EFT and < 12 % for surge
Dimensions	19" unit, basic 4 UH
Weight	depending on options
Included in delivery	10 connectors (power, EUT), 5 EUT cables adapter for EFT calibration
Generators	IMU3000, IMU4000
Options	<i>to be ordered additionally when required</i>
OPT-M-6-32 1000V DC	extends DC voltage capability of CDN from 500V DC to 1000V DC
OPT-M-6-32 RWG	extends capability of CDN for Ring Wave test up to 6 kV as per IEC61000-4-12
PROT32-AC690	3-ph. AC 690V/32A automatic overcurrent circuit breaker (for tests on AC lines)
PROT32-DC500	DC 500V/32A automatic overcurrent circuit breaker (for tests on DC lines)
PROT32-DC1000 (requires voltage option)	DC 1000V/32A automatic overcurrent circuit breaker (for tests on DC lines)
	<i>all overcurrent protections can be ordered only one protection to be used at a time</i>
DC-DC32	DC 1500V/32A diode-resistor network as per IEC61000-4-5 ed. 3, Amendment 1
CN-R40C05	Coupling module for railway apparatus, 6 kV, according to EN50121 (to be used with a CDN)

1.2. Automatic CDNs and options (4/6 kV)

CDN-A-6-32

Standards	IEC61000-4-4, IEC61000-4-5, other
Can be upgraded for	IEC61000-4-12, ANSI C62.45 (see options)
Type	3-ph., automatic
EUT voltage AC	max. 3 x 690V L-L, 50 / 60 Hz
EUT current AC	max. 3 x 32A (covers 0 – 32 A as per standard)
EUT voltage DC	max. 500V (can be upgraded, see options)
EUT current DC	max. 32A (covers 0 – 32 A as per standard)
Current flow	bi-directional (source to EUT and EUT to source)
Test level EFT (as per IEC)	max. 6 kV
Test level surge (as per IEC)	max. 6 kV
Surge waveform	as required for EUT current range 0 – 32A
Residual voltage	typically < 5 % for EFT and < 12 % for surge
Dimensions	19" unit, basic 4 UH (with options max. 8 UH)
Weight	depending on options
Included in delivery	EUT connection cables (5 pieces), additionally 10 connectors (power, EUT), 5 EUT cables adapter for EFT calibration
Generators	IMU3000, IMU4000
Options	<i>to be ordered additionally when required</i>
OPT-A-6-32 1000V DC	extends DC voltage capability of CDN from 500V DC to 1000V DC
OPT-A-6-32 1500V DC	extends DC voltage capability of CDN from 500V DC to 1500V DC
OPT-A-6-32 RWG	extends capability of CDN for Ring Wave test up to 6 kV as per IEC61000-4-12
PROT32-AC690	3-ph. AC 690V/32A automatic overcurrent circuit breaker (for tests on AC lines)
PROT32-DC500	DC 500V/32A automatic overcurrent circuit breaker (for tests on DC lines)
PROT32-DC1000 (requires voltage option)	DC 1000V/32A automatic overcurrent circuit breaker (for tests on DC lines)
PROT32-DC1500 (requires voltage option)	DC 1500V/32A automatic overcurrent circuit breaker (for tests on DC lines)
	<i>all overcurrent protections can be ordered only one protection to be used at a time</i>
OPT-A-6-32 ANSI (for Surge & if selected Ring)	extends capability of CDN to perform additional couplings as per ANSI C62.45
DC-DC32	DC 1500V/32A diode-resistor network as per IEC61000-4-5 ed. 3, Amendment 1
CN-R40C05	Coupling module for railway apparatus, 6 kV, according to EN50121 (to be used with a CDN)

CDN-A-6-63

Standards	IEC61000-4-4, IEC61000-4-5, other
Can be upgraded for	IEC61000-4-12, ANSI C62.45 (see options)
Type	3-ph., automatic
EUT voltage AC	max. 3 x 690V L-L, 50 / 60 Hz
EUT current AC	max. 3 x 63A
EUT voltage DC	max. 500V (can be upgraded, see options)
EUT current DC	max. 63A
Current flow	bi-directional (source to EUT and EUT to source)
Test level EFT (as per IEC)	max. 6 kV
Test level surge (as per IEC)	max. 6 kV
Surge waveform	as required for EUT current range 32 – 63A <i>see FULL RANGE OPTION below</i>
Residual voltage	typically < 5 % for EFT and < 12 % for surge
Dimensions	19" unit, 8 UH
Weight	depending on options
Included in delivery	connectors for EUT and supply (10 pcs.) adapter for EFT calibration
Generators	IMU3000, IMU4000
Options	<i>to be ordered additionally when required</i>
OPT-A-6-63 1000V DC	extends DC voltage capability of CDN from 500V DC to 1000V DC
OPT-A-6-63 1500V DC	extends DC voltage capability of CDN from 500V DC to 1500V DC
OPT-A-6-63 RWG	extends capability of CDN for Ring Wave test up to 6 kV as per IEC61000-4-12
PROT63-AC690	3-ph. AC 690V/63A automatic overcurrent circuit breaker (for tests on AC lines)
PROT63-DC500	DC 500V/63A automatic overcurrent circuit breaker (for tests on DC lines)
PROT63-DC1000 (requires voltage option)	DC 1000V/63A automatic overcurrent circuit breaker (for tests on DC lines)
PROT63-DC1500 (requires voltage option)	DC 1500V/63A automatic overcurrent circuit breaker (for tests on DC lines)
	<i>all overcurrent protections can be ordered only one protection to be used at a time</i>
OPT-A-6-63 ANSI (for Surge & if selected Ring)	extends capability of CDN to perform additional couplings as per ANSI C62.45
OPT-A-6-63 FULL RANGE	ensures that surge waveform can be applied also when testing EUTs in current range 0-32A/phase as per IEC61000-4-5 ed. 3
DC-DC63	DC 1500V/63A diode-resistor network as per IEC61000-4-5 ed. 3, Amendment 1

CDN-A-6-125

Standards	IEC61000-4-4, IEC61000-4-5, ECE R10, other
Can be upgraded for	IEC61000-4-12, ANSI C62.45 (see options)
Type	3-ph., automatic
EUT voltage AC	max. 3 x 690V L-L, 50 / 60 Hz
EUT current AC	max. 3 x 125A
EUT voltage DC	max. 500V (can be upgraded, see options)
EUT current DC	max. 125A
Current flow	bi-directional (source to EUT and EUT to source)
Test level EFT (as per IEC)	max. 6 kV
Test level surge (as per IEC)	max. 6 kV
Surge waveform	as required for EUT current range 63 – 125A <i>see FULL RANGE OPTION below</i>
Residual voltage	typically < 5 % for EFT and < 12 % for surge
Dimensions	19" rack with wheels, 18 UH
Weight	depending on options
Included in delivery	connectors for EUT and supply (10 pcs.) adapter for EFT calibration
Generators	IMU3000, IMU4000
Options	<i>to be ordered additionally when required</i>
OPT-A-6-125 1000V DC	extends DC voltage capability of CDN from 500V DC to 1000V DC
OPT-A-6-125 1500V DC	extends DC voltage capability of CDN from 500V DC to 1500V DC
OPT-A-6-125 RWG	extends capability of CDN for Ring Wave test up to 6 kV as per IEC61000-4-12
PROT125-AC690	3-ph. AC 690V/125A automatic overcurrent circuit breaker (for tests on AC lines)
PROT125-DC500	DC 500V/125A automatic overcurrent circuit breaker (for tests on DC lines)
PROT125-DC1000 (requires voltage option)	DC 1000V/125A automatic overcurrent circuit breaker (for tests on DC lines)
PROT125-DC1500 (requires voltage option)	DC 1500V/125A automatic overcurrent circuit breaker (for tests on DC lines)
	<i>all overcurrent protections can be ordered only one protection to be used at a time</i>
OPT-A-6-125 ANSI (for Surge & if selected Ring)	extends capability of CDN to perform additional couplings as per ANSI C62.45
OPT-A-6-125 FULL RANGE	ensures that surge waveform can be applied also when testing EUTs in current range 0-63A/phase as per IEC61000-4-5 ed. 3
DC-DC125	DC 1500V/125A diode-resistor network as per IEC61000-4-5 ed. 3, Amendment 1

CDN-A-6-200

Standards	IEC61000-4-4, IEC61000-4-5, ECE R10, other
Can be upgraded for	IEC61000-4-12, ANSI C62.45 (see options)
Type	3-ph., automatic
EUT voltage AC	max. 3 x 690V L-L, 50 / 60 Hz
EUT current AC	max. 3 x 200A
EUT voltage DC	max. 500V (can be upgraded, see options)
EUT current DC	max. 200A
Current flow	bi-directional (source to EUT and EUT to source)
Test level EFT (as per IEC)	max. 6 kV
Test level surge (as per IEC)	max. 6 kV
Surge waveform	as required for EUT current range 125 – 200A <i>see FULL RANGE OPTION below</i>
Residual voltage	typically < 5 % for EFT and < 12 % for surge
Dimensions	19" rack with wheels, 18 UH
Weight	depending on options
Included in delivery	connectors for EUT and supply (10 pcs.) adapter for EFT calibration
Generators	IMU3000, IMU4000
Options	<i>to be ordered additionally when required</i>
OPT-A-6-200 1000V DC	extends DC voltage capability of CDN from 500V DC to 1000V DC
OPT-A-6-200 1500V DC	extends DC voltage capability of CDN from 500V DC to 1500V DC
OPT-A-6-200 RWG	extends capability of CDN for Ring Wave test up to 6 kV as per IEC61000-4-12
PROT200-AC690	3-ph. AC 690V/200A automatic overcurrent circuit breaker (for tests on AC lines)
OPT-A-6-200 ANSI (for Surge & if selected Ring)	extends capability of CDN to perform additional couplings as per ANSI C62.45
OPT-A-6-200 FULL RANGE	ensures that surge waveform can be applied also when testing EUTs in current range 0-125A/phase as per IEC61000-4-5 ed. 3
DC-DC200	DC 1500V/200A diode-resistor network as per IEC61000-4-5 ed. 3, Amendment 1

8 KV CDNS

2.1 Manual CDNs and options (8 kV)

CDN-M-8-32

Standards	IEC61000-4-4, IEC61000-4-5, other
Can be upgraded for	IEC61000-4-12 (for ANSI see automatic version)
Type	3-ph., manual
EUT voltage AC	max. 3 x 690V L-L, 50 / 60 Hz
EUT current AC	max. 3 x 32A (covers 0 – 32 A as per standard)
EUT voltage DC	max. 500V (can be upgraded, see options)
EUT current DC	max. 32A (covers 0 – 32 A as per standard)
Current flow	bi-directional (source to EUT and EUT to source)
Test level EFT (as per IEC)	max. 7.1 kV with IMU3000
Test level surge (as per IEC)	max. 8 kV supported (with IMU3000 max. 7.6 kV)
Surge waveform	as required for current EUT range 0 – 32A
Residual voltage	typically < 5 % for EFT and < 12 % for surge
Dimensions	19" unit, basic 4 UH
Weight	depending on options
Included in delivery	10 connectors (power, EUT), 5 EUT cables adapter for EFT calibration
Generators	IMU3000
Options	<i>to be ordered additionally when required</i>
OPT-M-8-32 1000V DC	extends DC voltage capability of CDN from 500V DC to 1000V DC
OPT-M-8-32 RWG	extends capability of CDN for Ring Wave test up to 7.6 kV (with IMU3000) as per IEC61000-4-12
PROT32-AC690	3-ph. AC 690V/32A automatic overcurrent circuit breaker (for tests on AC lines)
PROT32-DC500	DC 500V/32A automatic overcurrent circuit breaker (for tests on DC lines)
PROT32-DC1000 (requires voltage option)	DC 1000V/32A automatic overcurrent circuit breaker (for tests on DC lines)
	<i>all overcurrent protections can be ordered only one protection to be used at a time</i>
DC-DC32	DC 1500V/32A diode-resistor network as per IEC61000-4-5 ed. 3, Amendment 1
CN-R40C05 8	Coupling module for railway apparatus, 8 kV, according to EN50121 (to be used with a CDN)

2.2. Automatic CDNs and options (8 kV)

CDN-A-8-32

Standards	IEC61000-4-4, IEC61000-4-5, other
Can be upgraded for	IEC61000-4-12, ANSI C62.45 (see options)
Type	3-ph., automatic
EUT voltage AC	max. 3 x 690V L-L, 50 / 60 Hz
EUT current AC	max. 3 x 32A (covers 0 – 32 A as per standard)
EUT voltage DC	max. 500V (can be upgraded, see options)
EUT current DC	max. 32A (covers 0 – 32 A as per standard)
Current flow	bi-directional (source to EUT and EUT to source)
Test level EFT	max. 7.1 kV with IMU3000
Test level surge	max. 8 kV supported (with IMU3000 max. 7.6 kV)
Surge waveform	as required for EUT current range 0 – 32A
Residual voltage	typically < 5 % for EFT and < 12 % for surge
Dimensions	19" unit, basic 4 UH (with options max. 8 UH)
Weight	depending on options
Included in delivery	10 connectors (power, EUT), 5 EUT cables adapter for EFT calibration
Generators	IMU3000
Options	<i>to be ordered additionally when required</i>
OPT-A-8-32 1000V DC	extends DC voltage capability of CDN from 500V DC to 1000V DC
OPT-A-8-32 1500V DC	extends DC voltage capability of CDN from 500V DC to 1500V DC
OPT-A-8-32 RWG	extends capability of CDN for Ring Wave test up to 7.6 kV (with IMU3000) as per IEC61000-4-12
PROT32-AC690	3-ph. AC 690V/32A automatic overcurrent circuit breaker (for tests on AC lines)
PROT32-DC500	DC 500V/32A automatic overcurrent circuit breaker (for tests on DC lines)
PROT32-DC1000 (requires voltage option)	DC 1000V/32A automatic overcurrent circuit breaker (for tests on DC lines)
PROT32-DC1500 (requires voltage option)	DC 1500V/32A automatic overcurrent circuit breaker (for tests on DC lines)
	<i>all overcurrent protections can be ordered only one protection to be used at a time</i>
OPT-A-8-32 ANSI (for Surge & if selected Ring)	extends capability of CDN to perform additional couplings as per ANSI C62.45
DC-DC32	DC 1500V/32A diode-resistor network as per IEC61000-4-5 ed. 3, Amendment 1
CN-R40C05 8	Coupling module for railway apparatus, 8 kV, according to EN50121 (to be used with a CDN)

CDN-A-8-63

Standards	IEC61000-4-4, IEC61000-4-5, other
Can be upgraded for	IEC61000-4-12, ANSI C62.45 (see options)
Type	3-ph., automatic
EUT voltage AC	max. 3 x 690V L-L, 50 / 60 Hz
EUT current AC	max. 3 x 63A
EUT voltage DC	max. 500V (can be upgraded, see options)
EUT current DC	max. 63A
Current flow	bi-directional (source to EUT and EUT to source)
Test level EFT (as per IEC)	max. 7.1 kV with IMU3000
Test level surge (as per IEC)	max. 8 kV supported (with IMU3000 max. 7.6 kV)
Surge waveform	as required for EUT current range 32 – 63A <i>see FULL RANGE OPTION below</i>
Residual voltage	typically < 5 % for EFT and < 12 % for surge
Dimensions	19" unit, 8 UH
Weight	depending on options
Included in delivery	connectors for EUT and supply (10 pcs.) adapter for EFT calibration
Generators	IMU3000
Options	<i>to be ordered additionally when required</i>
OPT-A-8-63 1000V DC	extends DC voltage capability of CDN from 500V DC to 1000V DC
OPT-A-8-63 1500V DC	extends DC voltage capability of CDN from 500V DC to 1500V DC
OPT-A-8-63 RWG	extends capability of CDN for Ring Wave test up to 7.6 kV (with IMU3000) as per IEC61000-4-12
PROT63-AC690	3-ph. AC 690V/63A automatic overcurrent circuit breaker (for tests on AC lines)
PROT63-DC500	DC 500V/63A automatic overcurrent circuit breaker (for tests on DC lines)
PROT63-DC1000 (requires voltage option)	DC 1000V/63A automatic overcurrent circuit breaker (for tests on DC lines)
PROT63-DC1500 (requires voltage option)	DC 1500V/63A automatic overcurrent circuit breaker (for tests on DC lines)
	<i>all overcurrent protections can be ordered only one protection to be used at a time</i>
OPT-A-8-63 ANSI (for Surge & if selected Ring)	extends capability of CDN to perform additional couplings as per ANSI C62.45
OPT-A-8-63 FULL RANGE	ensures that surge waveform can be applied also when testing EUTs in current range 0-32A/phase as per IEC61000-4-5 ed. 3
DC-DC63	DC 1500V/63A diode-resistor network as per IEC61000-4-5 ed. 3, Amendment 1

CDN-A-8-125

Standards	IEC61000-4-4, IEC61000-4-5, ECE R10, other
Can be upgraded for	IEC61000-4-12, ANSI C62.45 (see options)
Type	3-ph., automatic
EUT voltage AC	max. 3 x 690V L-L, 50 / 60 Hz
EUT current AC	max. 3 x 125A
EUT voltage DC	max. 500V (can be upgraded, see options)
EUT current DC	max. 125A
Current flow	bi-directional (source to EUT and EUT to source)
Test level EFT (as per IEC)	max. 7.1 kV with IMU3000
Test level surge (as per IEC)	max. 8 kV supported (with IMU3000 max. 7.6 kV)
Surge waveform	as required for EUT current range 63 – 125A <i>see FULL RANGE OPTION below</i>
Residual voltage	typically < 5 % for EFT and < 12 % for surge
Dimensions	19" rack with wheels, 18 UH
Weight	depending on options
Included in delivery	connectors for EUT and supply (10 pcs.) adapter for EFT calibration
Generators	IMU3000
Options	<i>to be ordered additionally when required</i>
OPT-A-8-125 1000V DC	extends DC voltage capability of CDN from 500V DC to 1000V DC
OPT-A-8-125 1500V DC	extends DC voltage capability of CDN from 500V DC to 1500V DC
OPT-A-8-125 RWG	extends capability of CDN for Ring Wave test up to 7.6 kV (with IMU3000) as per IEC61000-4-12
PROT125-AC690	3-ph. AC 690V/125A automatic overcurrent circuit breaker (for tests on AC lines)
PROT125-DC500	DC 500V/125A automatic overcurrent circuit breaker (for tests on DC lines)
PROT125-DC1000 (requires voltage option)	DC 1000V/125A automatic overcurrent circuit breaker (for tests on DC lines)
PROT125-DC1500 (requires voltage option)	DC 1500V/125A automatic overcurrent circuit breaker (for tests on DC lines)
	<i>all overcurrent protections can be ordered only one protection to be used at a time</i>
OPT-A-8-125 ANSI (for Surge & if selected Ring)	extends capability of CDN to perform additional couplings as per ANSI C62.45
OPT-A-8-125 FULL RANGE	ensures that surge waveform can be applied also when testing EUTs in current range 0-63A/phase as per IEC61000-4-5 ed. 3
DC-DC125	DC 1500V/125A diode-resistor network as per IEC61000-4-5 ed. 3, Amendment 1

CDN-A-8-200

Standards	IEC61000-4-4, IEC61000-4-5, ECE R10, other
Can be upgraded for	IEC61000-4-12, ANSI C62.45 (see options)
Type	3-ph., automatic
EUT voltage AC	max. 3 x 690V L-L, 50 / 60 Hz
EUT current AC	max. 3 x 200A
EUT voltage DC	max. 500V (can be upgraded, see options)
EUT current DC	max. 200A
Current flow	bi-directional (source to EUT and EUT to source)
Test level EFT (as per IEC)	max. 7.1 kV with IMU3000
Test level surge (as per IEC)	max. 8 kV supported (with IMU3000 max. 7.6 kV)
Surge waveform	as required for EUT current range 125 – 200A <i>see FULL RANGE OPTION below</i>
Residual voltage	typically < 5 % for EFT and < 12 % for surge
Dimensions	19" rack with wheels, 18 UH
Weight	depending on options
Included in delivery	connectors for EUT and supply (10 pcs.) adapter for EFT calibration
Generators	IMU3000
Options	<i>to be ordered additionally when required</i>
OPT-A-8-200 1000V DC	extends DC voltage capability of CDN from 500V DC to 1000V DC
OPT-A-8-200 1500V DC	extends DC voltage capability of CDN from 500V DC to 1500V DC
OPT-A-8-200 RWG	extends capability of CDN for Ring Wave test up to 7.6 kV (with IMU3000) as per IEC61000-4-12
PROT200-AC690	3-ph. AC 690V/200A automatic overcurrent circuit breaker (for tests on AC lines)
OPT-A-8-200 ANSI (for Surge & if selected Ring)	extends capability of CDN to perform additional couplings as per ANSI C62.45
OPT-A-8-200 FULL RANGE	ensures that surge waveform can be applied also when testing EUTs in current range 0-125A/phase as per IEC61000-4-5 ed. 3
DC-DC200	DC 1500V/200A diode-resistor network as per IEC61000-4-5 ed. 3, Amendment 1

CDN-F-125

Standard	IEC61000-4-4
Type	3-ph., manual
Coupling paths	L1, L2, L3, N, PE, all → ground, any combination
EUT voltage AC	max. 3 x 690V L-L, 50 / 60 Hz
EUT current AC	max. 3 x 125A
EUT voltage DC	max. 1000V
EUT current DC	max. 125A @ 1000 V
Current flow	bi-directional (source to EUT and EUT to source)
Test level EFT (as per IEC)	max. 7.1 kV with IMU3000
Residual voltage	typically < 5 %
Dimensions	19" unit, 4 UH
Weight	14 kg.
Included in delivery	10 connectors (power, EUT) adapter for EFT calibration
Generators	IMU3000, IMU4000

Already have a CDN and want to add functions after purchase?

Ask for details: sales@emc-partner.ch

THE EMC PARTNER PRODUCT RANGE

Find further brochures on our website emc-partner.com/brochures or contact your local representative for a hardcopy.

Immunity Test

Transient Test Systems for all EMC tests on electronic equipment. ESD, EFT, surge, AC dips, AC magnetic field, surge magnetic field, common mode, damped oscillatory and DC dips. According to IEC and EN 61000-4-2, -4, -5, -8, -9, -10, -11, -12, -13, -14, -16, -18, -19, -29.



Lightning Tests

Impulse test equipment and accessories for aircraft, military and telecom applications. Complete solutions for RTCA / DO-160 and EUROCAE / ED-14 for indirect lightning on aircraft systems, MIL-STD-461 tests CS106, CS115, CS116, CS117, CS118 and Telecom, ITU-T .K44 basic and enhanced tests for impulse, power contact and power induction.



Component Tests

Impulse generators for testing; varistors, gas discharge tubes (GDT), surge protective devices (SPDs), X / Y capacitors, circuit breakers, electricity meters, protection relays, insulation material, suppressor diodes, connectors, chokes, fuses, resistors, emc-gaskets, cables, etc.



Emission Tests

Measurement of Harmonics and Flicker in 1-phase and 3-phase electrical and electronic products according to IEC / EN 61000-3-2 and 61000-3-3 . HARCS Immunity software adds interharmonic tests, voltage variation according to IEC/EN 61000-4-13, -4-14.



System Automation

A full range of accessories enhance the test systems. Test cabinets, test pistols, adapters and remote control software, simplify interfacing with the EUT. Programmable PSU, EMC hardened for frequencies from 16.7Hz to 400Hz. PS3-SOFT-EXT complies with IEC / EN 61000-4-14 and -4-28.



Service

Our commitment starts with a quality management system backing up our ISO 17025 accreditation. With the SCS number 146, EMC PARTNER provide accredited calibration and repairs. Our customer support team are at your service!



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

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