

PCD COUPLING / DECOUPLING NETWORK

CDN FOR DC UP TO 1500 V / 400 A FOR UP TO 8 KV BURST TESTING



FOR TESTS ACCORDING TO ...

- › ECE-R10
- › EN 61000-4-5
- › IEC 61000-4-12
- › IEC 61000-4-5
- › IEC 61851-21

PCD - COUPLING/DECOUPLING NETWORKS FOR HIGH CURRENT DC LINES UP TO 1400 V

Burst pulses are applied to high voltage and high current DC lines by means of standalone coupling/decoupling networks. For such testing EM TEST offers the PCD 8 b-2-1500-400 for DC supply lines up to 1400 V and up to 400 A. According to IEC/EN 61000-4-4 the pulses are coupled via 33 nF capacitors to all lines DC+, DC- and to PE.

HIGHLIGHTS

- › Coupling/decoupling networks according to IEC/EN 61000-4-4
- › Coupling to DC+, DC- and PE on high current DC lines
- › Line voltage 1500 VDC up to 400 ADC
- › Burst test voltage up to 8 kV
- › Manual coupling in common mode to all lines
- › Supported by compact NX 5 series surge generator

APPLICATION AREAS



AUTOMOTIVE



RENEWABLE ENERGY



INDUSTRY

TECHNICAL DETAILS

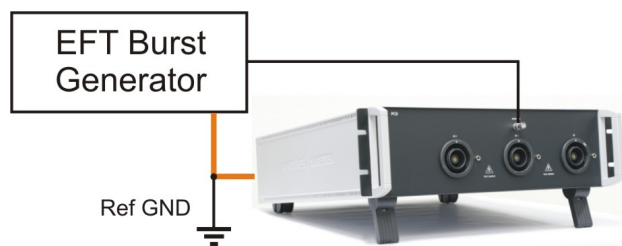
BURST APPLICATION

PCD 8 B-2-1500-400 TEST SETUP

The EM TEST PCD PCD 8 b-2-1500-400 coupling decoupling network is a manual CDN for coupling Burst pulses onto all lines in common mode of high current DC power lines.

The CNVs also includes the required decoupling part c for each line. To protect the AE-port, an additional protection circuit is integrated at the line input.

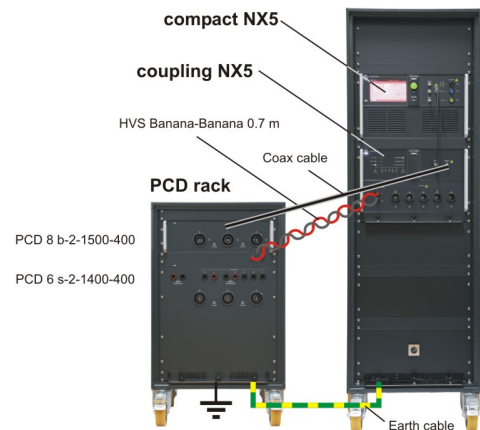
EM TEST offers the PCD 8 b-2-1500-400 coupling/decoupling networks for test voltages up to 8 kV and for higher line voltages/currents (up to 1500V and up to 400 A).



COMBINATION BURST SURGE

RACK FOR BURST AND SURGE

The PCD 6 s-2-1400-400 rack has additional space for integrate the burst coupling decoupling network PCD 8 b-2-1500-400 in one housing.

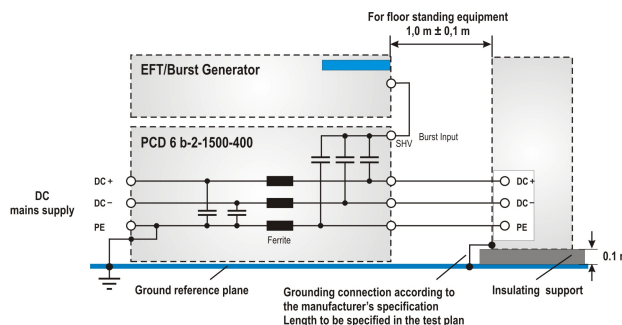


COUPLING

DC COUPLING FOR BURST

The EM TEST PCD 8 b-2-1500-400 couples the burst impulses via 33 nF coupling capacitors in common mode to DC+, DC- and PE lines.

The decoupling network decouples the burst impulses to the AE Port of the 400 A DC lines.



TECHNICAL DETAILS

PCD - COUPLING/DECOUPLING NETWORKS

8 KV MODELS, LINE VOLTAGE MAX. 1500 VDC

PCD 8 s-2-1500-400	8 kV coupling/decoupling network max. line current 400 A
DC voltage EUT	14500 V
DC current EUT	400 A
Burst coupling	Common mode to DC+, DC-, PE

TECHNICAL DATA

BURSTIMPULSE

Impulse voltage	0.2 -8.0 kV ±10%
Coupling	Common mode
Coupling capacitance	33 nF to DC+, DC-, PE
coupling common mode	to DC+, DC-, PE,
Residual voltage	< 400 V @ 4000 V burst

EUT DATA

Lines	DC+, DC-, PE
supply voltage	max. 1500 V
EUT current	max. 400 A

OUTPUT SOCKET

Connector	Multi Contact: Socket ID/B16BV-NS-A
DC+	Code plug C1
DC-	Code plug C4
PE	Code plug C5

GENERAL

PCD 8 B-2-1500-400, DIMENSION AND WEIGHTS

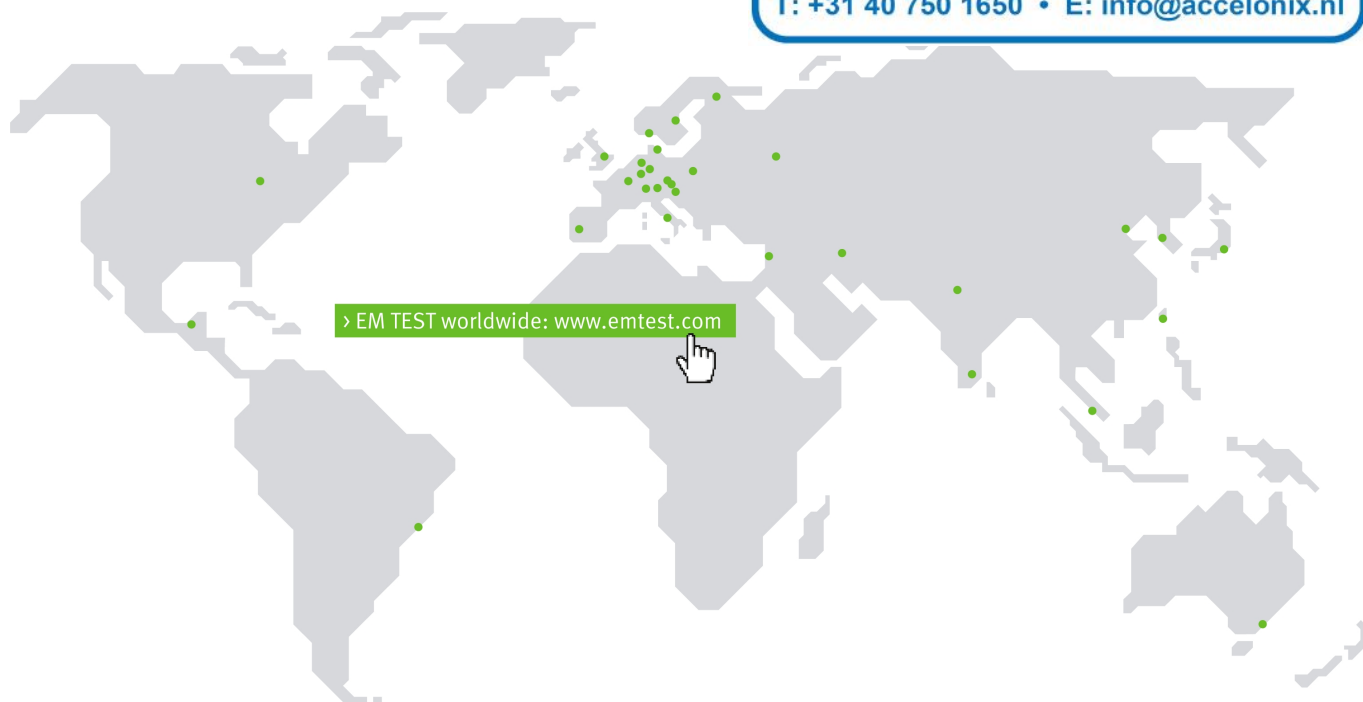
Device	3 HU, 19"
dimension (LxWxH)	448 mm x 500 mm x 153 mm
Weight	14.5 kg

ENVIRONMENT

Temperature	10 °C to 40 °C
Humidity	10 % to 80 %, non condensing
Atmospheric pressure	86 kPa (860 mbar) to 106 kPa (1,060 mbar)

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Information about scope of delivery, visual design and technical data correspond with the state of development at time of release. Subject to change without further notice.