EM TEST

Model: UCS 500 N5

Test: Burst

Parameter	Value
Burst coupling	Direct on AC power line
Polarity	Positive / Negative
Test performed with coupling on	L, N, E, LN, LE, NE, LNE
Burst immunity test routines	Test level 1 to 4 500V to 4kV
Burst duration	15ms @ 5kHz, 10us @ 100kHz
Burst period	300ms
Test voltage	200V - 5,500V ± 10%; 100V - 2,750V ± 10% into 50ohm
Pulse shape	5/50ns into 50ohm and 1,000ohm
Rise time tr	5ns ± 30% into 50ohm; 5ns ± 30% into 1,000ohm
Pulse width td	50ns ± 30% into 50ohm; 50ns -15/+100ns into 1,000ohm
Source impedance	50ohm
Laboratory condition	General
Temperature (°C)	23 ±5
Relative humidity (%)	10 to 60

Testing can be performed according to standards	Condition
IEC 61000-4-4:2012	Electrical fast transient/burst immunity test
EN 61000-4-4:2012	Electrical fast transient/burst immunity test
SIST EN 61000-4-4:2013	Electrical fast transient/burst immunity test

EM TEST

Model: UCS 500 N5

Test: Surge

Parameter	Value
Burst coupling	Direct on AC power line
Polarity	Positive/negative/alternating
Test performed with coupling on	L-N, L-PE, N-PE
Voltage (o.c.)	160V - 5,000V ± 10%
Pulse front time	1.2µs ± 30%
Pulse time to half value	50µs ± 20%
Current (s.c.)	Max. 2,500A ± 10%
Pulse front time	8µs ± 20%
Pulse time to half value	20µs ± 20%
Event counter	1 - 30,000 or endless, selectable
Laboratory condition	General
Temperature (°C)	23 ±5
Relative humidity (%)	10 to 60

Testing can be performed according to standards	Condition
As per IEC/EN 61000-4-5, Levels 1 4	Electrical fast transient/surge immunity test
SIST EN 61000-4-5:2007	Electrical fast transient/surge immunity test

EM TEST

Model: dito

http://www.emtest.com/products/product/13512010000001018 3.php

Test: ESD simulator

Parameter	Value
CD mode	500V - 10,000V +/-5%
AD mode	500V - 16,500V +/-5%
Polarity	Positive, negative
CD mode EN/IEC 61000-4-2	150pF/330ohm model
Rise time	0.8ns +/- 25%
Current 1st peak	7.5A +/- 15% @2kV
	15.0A +/- 15% @4kV
	22.5A +/- 15% @6kV
	30.0A +/- 15% @8kV
Test levels	Test based on standard levels
Laboratory condition	General
Temperature (°C)	23 ±5
Relative humidity (%)	10 to 60

Testing can be performed according to standards	Condition
As per EN/IEC 61000-4-2	Electromagnetic compatibility (EMC) Electrostatic discharge immunity test
SIST EN 61000-4-2:2009	Electromagnetic compatibility (EMC) Electrostatic discharge immunity test

EMC emmision measurements

Keysight CXA N9000B https://www.keysight.com/en/pdx-2641683-pn-N9000B/cxa-signal-analyzer-multi-touch-9-khz-to-265-ghz?nid=-32508.1163269&cc=SI&lc=eng&pm=ov

AARONIA Active biconical EMC broadband antenna up to 1GHz BicoLOG 30100 X http://www.aaronia.com/products/antennas/BicoLOG-30100-X/

COMTEST 3000x 2850 x 2450mm (W x D x H) RF shielded room http://www.comtest.eu/

Basic precompliance testing and enginering EMC emmision measurements can be performed.

EMC shielded room does provide efficient EMC shielding of other EMC sources (radio or mobile signals) but does not act as a anechoic chamber.

Reliable results with good repetitivity can be measured when using comparative mearurement method (reference versus modified).

Laboratory condition	General
Temperature (°C)	23 ±5
Relative humidity (%)	10 to 60

Previous: Hameg HMS3010, 100kHz to 3GHz with Tracking Generator https://www.rohde-schwarz.com/product/hms-productstartpage_63493-42689.html