

ACS 500N2.3

SINGLE PHASE AC/DC VOLTAGE SOURCE 2 KVA, GALVANICALLY ISOLATED



FOR TESTS ACCORDING TO ...

- › EN 61000-3-2
- › EN 61000-3-3
- › EN 61000-4-16
- › IEC 60533
- › IEC 61000-3-2
- › IEC 61000-3-3
- › IEC 61000-4-16
- › IEC 61326
- › IEC 61543
- › IEC 61850-3

APPLICATION

ACS 500N2.3 is a single phase AC/DC source, specifically designed for test applications as per IEC 61000-4-16 in combination with the CWS 500N4 common-mode disturbance simulator. It also meets the requirements for IEC/EN 61000-3-2 and IEC/EN 61000-3-3. The galvanically isolated input guarantees the test signal to be separated from the mains supply voltage.

By means of the ACS 500N2.3 the capabilities of the CWS 500N4 can be expanded for tests with DC, 16.66Hz as well as 50Hz and 60Hz independent from the actual mains supply frequency delivering a max. output voltage of 330V AC/DC.

HIGHLIGHTS

- › Frequency (fund.) 10Hz .. 80Hz and DC
- › Very low distortion (THD)
- › Very high voltage stability
- › Output power max. 2,000VA
- › Output voltage max. 330V AC/DC
- › High overcurrent capability
- › Inrush current capability

APPLICATION AREAS

-  INDUSTRY
-  RESIDENTIAL

TECHNICAL DETAILS

OUTPUT

| | |
|-------------------------------|--|
| Voltage range | 0V to 330V AC/DC |
| Voltage resolution | 0.025% (12 bit) |
| Output frequency | DC, 10Hz to 80Hz |
| Frequency resolution | 0.02Hz |
| Frequency accuracy, stability | 100ppm |
| Output power | 2,000VA |
| Output connector | Safety laboratory connectors |
| Output current, 50Hz | Continuous: 7.7A maximum RMS (max. 3s): 15.1A Repetitive peak: 60A |
| Output current, 60Hz | Continuous: 8.0A maximum RMS (max. 3s): 15.4A Repetitive peak: 60A |

REGULATION

| | |
|----------------------------------|---|
| Voltage Sense | Internal or external, 4 wires |
| Total harmonic distortion | Less than 0.1% |
| Output voltage stability | Better than 0.1% |
| Output voltage accuracy | Better than 0.5% |
| Max. compensatable drop on wires | 5% f.s. |
| Protection | Overcurrent Overtemperature Overvoltage Undervoltage |

INPUT (VIA ISOLATION TRANSFORMER)

| | |
|----------------|---------------|
| Supply voltage | 230V (L,N,PE) |
| Input current | 16A |
| Line frequency | 45Hz to 65Hz |
| Fuse | 16A internal |
| Connector | 16A |

AMBIENT CONDITIONS

| | |
|---------------|---------------------|
| Temperature | 0°C to 35°C |
| Rel. humidity | 80%, non condensing |

CONTROL

| | |
|-----------|---|
| Interface | RS 232 9-pin SubD for control via CWS 500N4 |
|-----------|---|

DIMENSIONS

| | |
|---------|-----------------------|
| Housing | 19", 6HU |
| Weight | 23kg |
| Size | 287mm x 449mm x 500mm |

COMPETENCE WHEREVER YOU ARE



CONTACT EM TEST DIRECTLY

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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.