

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
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DIMENSIONS

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

COMPETENCE WHEREVER YOU ARE



CONTACT EM TEST DIRECTLY

Switzerland

AMETEK CTS GmbH › Sternenhofstraße 15 › 4153 Reinach › Switzerland
Phone +41 (0)61 204 41 11 › Fax +41 (0)61 204 41 00
Internet: www.ametek-cts.com › E-mail: sales.conducted.cts@ametek.com

Germany

AMETEK CTS Europe GmbH › Customer Care Center EMEA › Lünener Straße 211
› 59174 Kamen › Germany
Phone +49 (0) 2307 26070-0 › Fax +49 (0) 2307 17050
Internet: www.ametek-cts.com › E-mail: info.cts.de@ametek.com

Poland

AMETEK CTS Europe GmbH › Biuro w Polsce › ul. Twarda 44 › 00-831 Warsaw › Poland
Phone +48 (0) 518 643 12
Internet: www.ametek-cts.com › E-mail: Infopolska.cts@ametek.com

USA / Canada

AMETEK CTS US › 52 Mayfield Ave › Edison › NJ 08837 › USA
Phone +1 732 417 0501
Internet: www.ametek-cts.com › E-mail: usasales.cts@ametek.com

P.R. China

AMETEK Commercial Enterprise (Shanghai) Co. Ltd. › Beijing Branch › Western Section, 2nd floor › Jing Dong Fang Building (B10) › Chaoyang District › Beijing, China, 100015
Phone +86 10 8526 2111 › Fax +86 (0)10 82 67 62 38
Internet: www.ametek-cts.com › E-mail: chinasales@ametek.com

Republic of Korea

EM TEST Korea Limited › #405 › WooYeon Plaza › #986-8 › YoungDeok-dong › Giheung-gu › Yongin-si › Gyeonggi-do › Korea
Phone +82 (31) 216 8616 › Fax +82 (31) 216 8616
Internet: www.emtest.co.kr › E-mail: sales@emtest.co.kr

Singapore

AMETEK Singapore Pte. Ltd › No. 43 Changi South Avenue 2 › 04-01 Singapore 48164
Internet: www.ametek-cts.com › E-mail: singaporesales.cts@ametek.com

Great Britain

AMETEK GB › 5 Ashville Way › Molly Millars Lane › Wokingham › Berkshire RG41 2 PL › Great Britain
Phone +44 845 074 0660
Internet: www.ametek-cts.com

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.