

# ACS 500N6

## SINGLE PHASE AC VOLTAGE SOURCE 6 KVA



### FOR TESTS ACCORDING TO ...

- > EN 61000-3-2
- > EN 61000-3-3
- > IEC 61000-3-2
- > IEC 61000-3-3
- > JIS C 61000-3-2

### APPLICATION




ACS 500N6 is a single phase AC source, specifically designed for harmonics and flicker testing. It meets the corresponding specifications as per EN/IEC 61000-3-2 and EN/IEC 61000-3-3 as well as JIS C 61000-3-2.

ACS 500N6 provides the perfect sinusoidal and stable voltage signal specified to perform fully compliant harmonics and flicker measurements/analysis despite of the mains supply frequency and steadiness of the voltage.

### HIGHLIGHTS

- > **Frequency (fund.) 10Hz .. 80Hz**
- > **Output power max. 6,000VA**
- > **Output voltage max. 300V**
- > **Inrush current capability**
- > **Remote control via RS232**

### APPLICATION AREAS

-  INDUSTRY
-  MEDICAL
-  BROADCAST
-  RESIDENTIAL

## TECHNICAL DETAILS

### BENEFITS

#### SINUSOIDAL VOLTAGE FOR HARMONICS AND FLICKER MEASUREMENTS

As per standard requirements a pure voltage is needed for measurements of harmonics and flicker. The output voltage of the ACS 500N6 is guaranteed to be sinusoidal with a very low distortion (THD) of less than 0.1% regardless of the load. Furthermore the voltage is kept stable within 0.1% independent of the load, even if the load is variable.

No matter what the condition of the mains supply might be ACS 500N6 fulfills the high standard for purity and stability of both the sinusoidal voltage signal and the frequency. With a power of 6kVA it is well dimensioned for measurements as per EN/IEC 61000-3-2 and EN/IEC 61000-3-3 as well as JIS C 61000-3-2 up to 16A. The ACS 500N6 is electronically protected against overtemperature, overcurrent, overvoltage and undervoltage.

Used with an EM TEST DPA 500 Series harmonics and flicker analyzer ACS 500N6 is fully remote controlled by dpa.control software via RS232 interface.

### OUTPUT

Voltage range	0V to 300V
Voltage resolution	0.025% (12 bit)
Output frequency	10Hz to 80Hz
Frequency resolution	0.02Hz
Frequency accuracy, stability	100ppm
Output power	6,000VA
Output	Safety laboratory connector
Output current, 50Hz	Continuous: 24A maximum RMS (max. 3s): 47A Repetitive peak: 200A
Output current, 60Hz	Continuous: 24.9A maximum RMS (max. 3s): 47.9A Repetitive peak: 200A

### 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

Supply voltage	3 x 400V (3P,N,PE)
Input current	32A (16A/27A neutral)
Line frequency	45Hz - 65Hz
Fuse	3x 16A internal
Connector	CEE type 32A

### AMBIENT CONDITIONS

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

### CONTROL

Interface	RS 232, 9-pin SubD
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## TECHNICAL DETAILS

### DIMENSIONS

Housing	19", 6HU
Weight	40kg
Size	287mm x 449mm x 500mm

### OPTIONS

DPA 500N	Harmonic and Flicker meter 16A
MRAC 25	25 HU rack with Safety Circuit

### OTHER MODELS

ACS 500N3	AC voltage source, 3kVA
Output power	3,000VA
Input voltage/ current	230V (L,N,PE), 16A
Output current, 50Hz	Continuous: 12.1A maximum RMS (max. 3s): 21.8A
Output current, 60Hz	Continuous: 12.5A maximum RMS (max. 3s): 22A

# COMPETENCE WHEREVER YOU ARE



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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.