

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 |
|-----------|--------------------|

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.