

ACS 500N3

SINGLE PHASE AC VOLTAGE SOURCE 3 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

ACS 500N3 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 500N3 provides the perfect sinusoidal and stable voltage signal specified to perform fully compliant harmonics and flicker analysis despite of the mains supply frequency and steadyness of the voltage.

HIGHLIGHTS

- › Frequency (fund.) 10Hz .. 80Hz
- › Very low distortion (THD)
- › Very high voltage stability
- › Output power 3,000VA
- › Output voltage max. 300V
- › High overcurrent capability
- › Inrush current capability
- › Remote controlled by the DPA 500N 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 500N3 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 500N3 fulfills the high standard for purity and stability of both the sinusoidal voltage signal and the frequency. With its power of 3,000VA it can be used for measurements as per EN/IEC 61000-3-2 and EN/IEC 61000-3-3 as well as JIS C 61000-3-2 on DUTs with small power consumption, not exceeding 10A of nominal current for resistive load.

The ACS 500N3 AC voltage source is electronically protected against overtemperature, overcurrent, overvoltage and undervoltage.

Used with EM TEST DPA 500 Series harmonics and flicker analyzers ACS 500N3 is fully remote controlled by dpa.control software via RS232 interface.

TECHNICAL DETAILS

OUTPUT		DIMENSIONS	
Voltage range	0V to 300V	Housing	19", 6HU
Voltage resolution	0.025% (12 bit)	Weight	23kg
Output frequency	10Hz to 80Hz	Size	287mm x 449mm x 500mm
REGULATION		OPTIONS	
Voltage Sense	Internal or external, 4 wires	DPA 500N	Harmonic and Flicker meter 16A
Total harmonic distortion	Less than 0.1%	MRAC 25	25 HU rack with Safety Circuit
Output voltage stability	Better than 0.1%	OTHER MODELS	
Output voltage accuracy	Better than 0.5%	ACS 500N6	AC voltage source, 6kVA
Max. compensatable drop on wires	5% f.s.	Output power	6,000VA
Protection	Overcurrent Overtemperature Overtvoltage Undervoltage	Input power	3x400V (3L,N,PE), 32A
INPUT		Output current, 50Hz	Continuous: 24.0A maximum RMS (max. 3s): 47.0A
Supply voltage	230V (L,N,PE)	Output current, 60Hz	Continuous: 24.9A maximum RMS (max. 3s): 47.9A
Input current	25A		
Line frequency	45Hz to 65Hz		
Fuse	25A internal		
Connector	Sockets		
AMBIENT CONDITIONS			
Temperature	0°C to 35°C		
Rel. humidity	80%, non condensing		
CONTROL			
Interface	RS 232 9-pin SubD		

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.\nTechnical data subject to change without further notice.