

NETWAVE

MULTIFUNCTION AC/DC POWER SOURCE 7,500VA



FOR TESTS ACCORDING TO ...

- > AIRBUS
- > BOEING
- > EN 61000-3-11
- > EN 61000-3-12
- > EN 61000-3-2
- > EN 61000-3-3
- > EN 61000-4-13
- > EN 61000-4-14
- > EN 61000-4-17
- > EN 61000-4-27
- > EN 61000-4-28
- > EN 61000-4-29
- > IEC 61000-3-11
- > IEC 61000-3-12
- > IEC 61000-3-2
- > IEC 61000-3-3
- > IEC 61000-4-13
- > IEC 61000-4-14
- > IEC 61000-4-17
- > IEC 61000-4-27
- > IEC 61000-4-28
- > IEC 61000-4-29
- > JIS C 61000-3-2
- > MIL-STD-704
- > RTCA/DO 160 Section 16

NETWAVE - SIMULATION OF THE MOST REQUIRED POWER SUPPLY PHENOMENON

The NetWave is a single phase AC power source, specifically designed to meet the requirements as per IEC/EN 61000-4-13, IEC/EN 61000-4-14, IEC/EN 61000-4-17, IEC/EN 61000-4-27, IEC/EN 61000-4-28. It is also serving as a DC power source to cover the requirements as per IEC/EN 61000-4-29 for voltage dips and interruptions on DC supplies.





Its output power with low distortion and high stability, even if supplying dynamic loads, guarantees full compliant measurements for harmonics and flicker testing as per IEC/EN 61000-3-2, JIS C 61000-3-2 and IEC/EN 61000-3-3 as well as per IEC/EN 61000-3-11 and IEC/EN 61000-3-12.

Additionally, the NetWave is also well suited for avionics testing as per DO-160, MIL-STD-704, Airbus ABD0100 and Boeing.

HIGHLIGHTS

- > **WIDE POWER BANDWIDTH; DC - 5KHZ**
- > **OUTPUT POWER 7,500VA**
- > **OUTPUT VOLTAGE 300V AC, 425V DC**
- > **HIGH INRUSH CURRENT CAPABILITY**
- > **BUILT-IN VOLTAGE AND CURRENT MEASUREMENT**
- > **BUILT-IN ARBITRARY WAVEFORM GENERATOR**

APPLICATION AREAS

-  INDUSTRY
-  MEDICAL
-  RESIDENTIAL
-  AIRCRAFT

TECHNICAL DETAILS

NETWAVE AC/DC POWER SOURCE

AC/DC POWER SOURCE	
Output voltage	0V - 300V AC (RMS) 0V - +/-425V DC
Output frequency	DC - 5,000Hz
Frequency accuracy, stability	100ppm
Output power	7,500VA
Output current	26A (RMS) continuous 47A (RMS) short-term (max. 3s) 200A repetitive peak
Output connector	Safety lab connectors

REGULATION	
Voltage sense	Internal or external, 4 wires
Distortion (THD)	Less than 0.1%
Output voltage	Better than 0.1%
Stability	Better than 0.1%
Accuracy	Better than 0.5%
Max. compensatable drop on wires	5% f.s.
Current limiter	0A to I _{max} , programmable
Protection	Over current Over voltage Over temperature Low voltage

NETWAVE ARBITRARY GENERATOR

WAVEFORM GENERATOR	
Segment types DC	DC, Ramp, Square, Triangle, Sawtooth, Step, Sine, Sine sweep, Sine ramp, Damped sinewave, Sine ripple, Profile, Square sweep, Noise, Sine Dwell, Sinc, Harmonic, Exponent ...
Segment types AC	Sine, Sine sweep, Sine offset, Sine down/up, Sine unbalance, Over swing, Sweep on sine, Harmonic, Interharmonic step ...
Segment duration	Unlimited
Number of segments	100 per waveform
Data file import	CSV or Excel files

MEASUREMENTS	
Input channels	2 channels (ExtBoard required)
Input voltage	25V, 50V, 100V, 250V and 500V, unipolar or bipolar
Input current	7A, 15A, 30A, 70A and 150A, unipolar or bipolar
Resolution	16 Bit
Accuracy	Voltage: better than 0.2% Current: better than 0.5%
Frequency range	DC - 50kHz
Sample rate	5Hz - 500kHz, selectable
Memory	Min. 40GB on hard disk, File size max. 1GB

DISPLAY AND CONTROLS	
Display	2-Line LCD, 40 characters
LED indicators	Power On Active output channel Trigger Functional status hard disk
Operation	6 function keys, Test On key: ON/OFF key for the power source

TRIGGER AND DUT MONITORING	
Trigger	2 inputs, 2 outputs
DUT monitors	2 inputs, configurable

TECHNICAL DETAILS

GENERAL DATA

INTERFACES

GPIB
 Ethernet
 USB (for memory stick)
 RS 232 (input from DPA analyser)
 Frame bus (internal system bus)

DIMENSIONS

Housing	19", 9HU
Size	417mm x 449mm x 500mm
Weight	45kg

MAINS

Supply voltage	3 x 400V (3P,N,PE); optional 3 x 208V (3P,N,PE)
Input current	32A (Phase 16A, Neutral 27A)
Line frequency	45Hz - 65Hz
Connector	CEE type 32A

AMBIENT CONDITIONS

Temperature	0°C - 40°C
Rel. humidity	10% - 90%, non condensing

OPTIONS

DPA 500N	1-phase Harmonics and Flicker analyzer with built-in Flicker impedance
MRAC 25	19"/25 HU mini rack for H&F system, incl. safety circuit

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.
 Technical data subject to change without further notice.