System concept

EPOS 360 features four voltage signal sources and three current signal sources.

The signal characteristics are computed by a high-performance signal processor and output via high-accuracy D/A converters and electronic power amplifiers.

The parameters amplitude, phase angle and frequency are separately and independently adjustable, as well as overload and short-circuit protected and can be varied over a wide range during output.

Signal sources

- 4 independent voltage channels up to 300 V
- 3 independent current channels up to 16 A
- Synthetic signal generation
- Wide frequency range
- Freely selectable signal shapes
- Play-back of transient signal characteristics
- High accuracy
- Very low THD
- Separate auxiliary power supply

Technical data

Sources	Separately and independently adjustable from each other
Frequency range	DC...3 kHz
Transient Signals	DC...4 kHz
Phase angle	0...360°
Voltage amplifier	
4-phase	4 x 0...300 V / 75 VA
1-phase	1 x 0...600 V / 150 VA
Current amplifier	
3-phase	3 x 0...16 A / 40 VA
1-phase	1 x 0...32 A / 80 VA
DC output	12...260 V, 50 W, 2 A
Binary inputs	2
Binary outputs	2
Operation	Touch screen, jog wheel, membrane keyboard with 4 function keys, PC
Display	High resolution, resistive 5" touch screen
Interfaces	USB-A/B, RJ45
Status LEDs	Signalling of active current and voltage outputs and the status of the binary inputs and outputs via LEDs
Supply voltage	100...265 VAC / 120...265 VDC / 47...63 Hz
Housing	19" installation housing 3 HE (stationary) Optional: portable housing
Weight	9 kg

KoCoS A FRIEND OF ENERGY

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[ENG]

ELECTRONIC POWER SOURCES

EPOS 360.

The multi-functional three-phase signal generator!

EPOS 360 is the multi-functional three-phase generator which comes into its own whenever maximum power and high signal accuracy are required.

Intelligent amplifier technology and fully synthetic signal generation make it possible to issue any signal shape across a wide frequency range or even to play back complex transient signal characteristics.

EPOS 360 is designed for use as a stand-alone device or for operation with an external PC.

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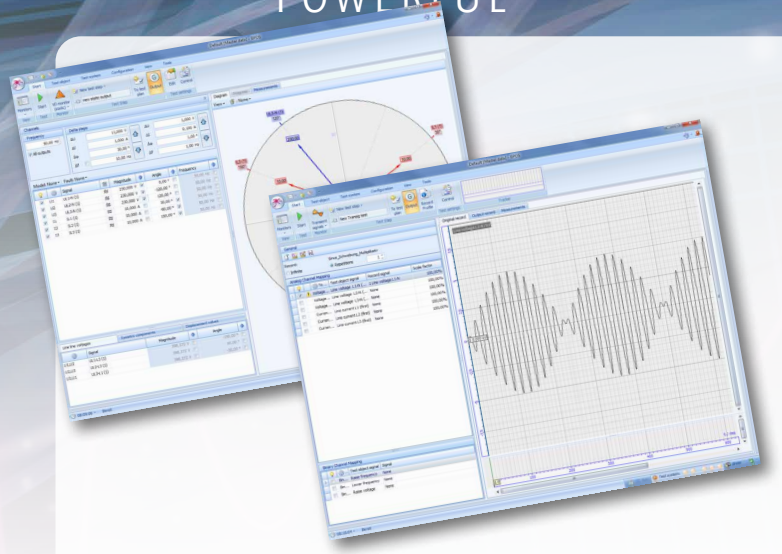

Electronic Power Sources

High-precision current and voltage sources are becoming more and more important in many areas of electrical engineering and especially in measuring and testing technology.

EPOS 360 is used wherever absolutely precise signals with a very low distortion factor, freely selectable signal forms and high power are required. EPOS 360 is therefore suitable for use in the testing, setting and calibration of power and power quality measuring instruments, disturbance recorders and electricity meters, among other things.

Output of COMTRADE records & generation of any signal characteristic

The TRANSIG-monitor included in the scope of delivery can be used for the full graphical display and output of recorded signal characteristics which are available in standard COMTRADE format.

During tests these signal characteristics are then "played back" as transient signal waveforms by EPOS.

The TRANSIG-monitor also includes a signal editor which can be used to configure and calculate any signal characteristic. The signal characteristics can be generated from a basic function, such as a sine wave, with one or more superimposed functions, such as a direct component, exponential functions, harmonics, etc.

Programming interface

EPOS 360 also features a simple programming interface for special requirements, e.g. for use with test stands. This programming interface can be used in environments which support COM/ActiveX or in .NET environments.

The integrated operator interface

The internal operator interface is a special feature. Its high-resolution 5" touch screen with smart touch technology enables many signals can be output quickly and easily without having to connect an external PC.

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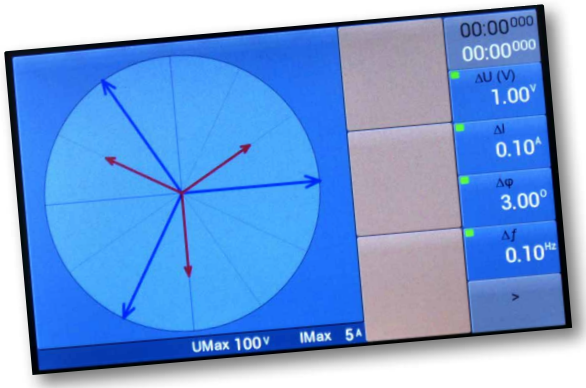

The clear user interface guides the user intuitively to complete the task in hand. User actions carried out with the ergonomic jog wheel, such as amplitude, phase angle or frequency adjustments, are processed in real time and executed without delay.

An illuminated ring integrated in the jog wheel also provides information about current system status during settings and output. The states and operating modes of the inputs and outputs of the EPOS 360 are signaled via numerous LEDs in the control panel.

A quick glance is enough to see which outputs are active and which states are present at the binary inputs and outputs.

Precision measurement technology in different packaging

As standard, the EPOS 360 is built into a 19" rackmount housing. An optionally available portable housing makes the versatile signal generator suitable for stationary use in test benches, but also in the laboratory or for demanding outdoor applications.