

EPOS

120 A
Maximum Output Current



EPOS 300 (25 A)



EPOS 300 (120 A)

EPOS 300

Electronic Power Sources

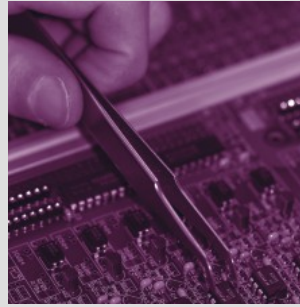
EPOS 300 is the universal current and voltage source which comes into its own whenever maximum power and high signal accuracy are required. This makes EPOS the perfect choice when testing, setting and calibrating electricity meters, protection relays, fault recorders, power meters or power quality analysers, to name but a few applications.

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 fault records.

EPOS 300 is designed for use as a stand-alone device or for operation via a PC. Using additional interfaces EPOS 300 can also be fully controlled by external devices such as reference meters, for example.

EPOS 300

Electronic Power Sources



High-accuracy current and voltage sources are becoming increasingly important in many areas of electrical engineering and nowhere is this more evident than in the fields of measurement and test technology. Signal generation directly from the grid via transformers is no longer adequate for the purpose of either operating or testing many electronic components and devices.

EPOS 300 is the ideal solution whenever there is a need for absolutely precise signals with very low levels of harmonic distortion, freely selectable signal shapes and a high level of power.

System Description

The use of state-of-the-art technologies coupled with a high degree of system integration has made it possible to develop a portable device which is small, lightweight and extremely powerful.

The signal characteristics are computed by a high-performance signal processor and issued via high-accuracy D/A converters and electronic power amplifiers. The synthetic generation of the output quantities guarantees immunity to disturbances in the supply.

EPOS 300 features three voltage and three current signal sources. The amplitude, phase angle and frequency parameters can be varied widely during signal output. This means that EPOS 300 can also be used as a freely programmable three-phase function generator which is able to output any flicker signals or even records (from a disturbance recorder, for example) as transient signals.

Wide Range of Features

Two different models are available with maximum output currents of 25 A and 120 A. Both models feature an internal DC power supply which can be

used to feed a test object, for example. In addition to the sources themselves, four binary inputs and three binary outputs are provided for control purposes. A GPS receiver module can also be integrated for time synchronization.

Easy to Operate

EPOS 300 is operated and controlled using just four function keys and a jog dial. These controls are located on the front panel together with an LCD screen. Great emphasis has been placed on the ergonomics of the display menu enabling the device to be operated simply and intuitively with the jog dial.

Additional Interfaces

A PC or laptop computer can be connected directly to EPOS 300 enabling the device to be operated and controlled with the powerful EPOS software.

The software also features a simple programming interface

with a self-explanatory library for special requirements, e.g. for use with test stands developed by customers for their own use. This programming interface can be used in environments which support COM/ActiveX or in .NET environments.

Specifically for the purpose of testing meters, EPOS 300 is also equipped with an interface for connecting the METES 340 REF reference meter. This makes it possible to use the reference meter to exercise fully automatic control directly on the source.

Voltage outputs	■	3 x 0 to 300 VAC / 75 VA
Current outputs	EPOS 300 (25 A)	3 x 0 to 25 AAC / 85 VA
	EPOS 300 (120 A)	3 x 0 to 12.5 AAC / 130 VA or 3 x 0 to 120 AAC / 80 VA, switchable
DC output	■	12 to 260 VDC, 50 W
Binary inputs	4	Trigger range 24 to 300 VDC
Binary outputs	3	Potential-free (dry) output relays
Time synchronisation	■	Internal GPS receiver module
Operation	■	Membrane keypad with 4 function keys, jog dial, PC
Display	■	Alphanumeric LCD, 4 x 20 characters
Communication	1 x Ethernet ■	1 x RS232, 1 x USB, 1 x Interlink (METES 340 REF)
Housing (WxHxD) [mm]	EPOS 300 (25 A)	470 x 162 x 316 19", 3 HU
	EPOS 300 (120 A)	470 x 204 x 316 19", 4 HU

Technical specifications subject to change without prior notice | 200708 | © KoCoS Messtechnik AG

■ standard ■ optional