EAC-S 3-Phase AC Power Sources

750 – 30.000 VA

OVERVIEW

- Simulation of single- and three-phase networks
- AC / DC operation
- 750 – 30.000 VA power output
- 0 – 700 VAC / 1.000 VDC output voltage per phase
- 1 – 2.000 Hz variable frequency (sine, square, triangle)
- Currents up to 600 A per phase
- Graphical Display
- Measuring of voltage, current, average and peak current, effective power, idle power, apparent power, power factor, crest factor
- Voltage and current constant mode
- Free memory space for programmable curve forms (WAV files), enabled over an external SD card (optional)
- 10 storage locations to save current configuration
- External oscillator input + / - 10 V with adjustable time delay up to 70 ms (optional)
- Galvanic isolated analogue interface: 0 – 5 V or 0 – 10 V (optional)
- Digital interface IEEE, RS232/485, USB, LAN (optional)
- Script control: process programming and booting from memory card
- Creation of user-defined curve shapes and programming via memory card or digital interface
- Three non-volatile curve shapes (programming via memory card)
- Datalog function: operation values can be saved in an adjustable interval to a memory card
- Script operation in combination with Datalog function allows an independent stand-alone test field setup
- Sync input synchronizes the device with external sources (optional)
- Sync output triggers external measurement instruments or similar (optional)
- Disengageable output voltage for a determined amount of half periods
- Connectable output voltage for a determined amount of time (optional)
- Special version on request

PRODUCT EXAMPLES

Type	Power VA	Current VAC / VDC	max. Current A	Dimensions
EAC-3S 250	3 x 250	3 x 0 – 300 / 0 – 425	3 x 0 – 3	3x 19" x 4 HE x 434,5 mm
EAC-3S 500	3 x 500	3 x 0 – 300 / 0 – 425	3 x 0 – 6	3x 19" x 4 HE x 434,5 mm
EAC-3S 1000	3 x 1.000	3 x 0 – 300 / 0 – 425	3 x 0 – 10	3x 19" x 6 HE x 434,5 mm
EAC-3S 2000	3 x 2.000	3 x 0 – 300 / 0 – 425	3 x 0 – 15	3x 19" x 6 HE x 434,5 mm
EAC-3S 3000	3 x 3.000	3 x 0 – 300 / 0 – 425	3 x 0 – 20	3x 19" x 10 HE x 434,5 mm
EAC-3S 4000	3 x 4.000	3 x 0 – 300 / 0 – 425	3 x 0 – 30	3x 19" x 16 HE x 600 mm
EAC-3S 5000	3 x 5.000	3 x 0 – 300 / 0 – 425	3 x 0 – 35	3x 19" x 16 HE x 600 mm
EAC-3S 6000	3 x 6.000	3 x 0 – 300 / 0 – 425	3 x 0 – 40	3x 19" x 16 HE x 600 mm
EAC-3S 7000	3 x 7.000	3 x 0 – 300 / 0 – 425	3 x 0 – 50	3x 19" x 20 HE x 800 mm
EAC-3S 8000	3 x 8.000	3 x 0 – 300 / 0 – 425	3 x 0 – 60	3x 19" x 20 HE x 800 mm
EAC-3S 9000	3 x 9.000	3 x 0 – 300 / 0 – 425	3 x 0 – 70	3x 19" x 25 HE x 800 mm
EAC-3S 10000	3 x 10.000	3 x 0 – 300 / 0 – 425	3 x 0 – 80	3x 19" x 25 HE x 800 mm

Hauptstraße 119 - 121
D-68804 Altlußheim

phone +49-6205-3948-0
fax +49-6205-37560

e-mail info@et-system.de
web www.et-system.de

OPTIONS

Appendix	Description
../230	Input 230 / 207 – 253 VAC
../400	Input 400 / 360 – 440 VAC
../3P208	Input 3 x 208 / 187 – 229 VAC
../3P400	Input 3 x 400 / 360 – 440 VAC
../3P480	Input 3 x 480 / 432 – 528 VAC
../V500	Extended voltage range 0 – 500 VAC / 0 – 700 VDC -40 % Imax
../V700	Extended voltage range 0 – 700 VAC / 0 – 1.000 VDC -50 % Imax
../F1000	Extended freqency range 1 – 1.000 Hz
../F2000	Extended freqency range 1 – 2.000 Hz
../LT	Interface IEEE488
../LTRS485	Interface RS485
../LTRS232	Interface RS232
../LAN	Interface LAN
../USB	Interface USB
../ATI 5	Isolated analogue interface 0 – 5 V set and monitor
../ATI 10	Isolated analogue interface 0 – 10 V set and monitor
../EXT/OSZ	OSZ external oscillator input
../SD	SD card slot
../SYNC A	Sync output for triggering external measurement devices or similar (optinal)
../SYNC E	Sync input for synchronization with external sources (optional)
../INTLOCK	Interlock input / safety shutdown
../DIP	Disengageable output voltage during a specific number of half periods (digital interface required)
../GATE	Engageable output voltage during a specific amount of time (digital interface required)
../APuls	Adjustable puls sequence (digital interface required)
../LoadR	Load reverse energy recovery
../LoadLR	Load energy recovery / regeneration in development

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TECHNICAL DATAS

Input Voltage Specification

Input voltage range	230 VAC / 400 VAC / 3 x 208 VAC / 3 x 400 VAC / 3 x 480 VAC ±10%
Input frequency	47 – 63 Hz

Output Specifications

Grid regulation	0,10%
Load control	0,10%
Distortion Pmax	0,10%
Programming accuracy AC voltage	100 mV
Programming accuracy DC voltage	100 mV
Programming accuracy < 10 A	1 mA
Effective constant current > =10 A	10 mA
Programming accuracy Activation phase	0,1°
Programming accuracy Frequency	0,1 Hz
Frequency standard	0 – 500 Hz
External oscillator input	0 – 10 V / 1 kHz
Resolution, Measurement, Effective voltage, DC voltage, Peak voltage	100 mV
Resolution , Measurement <10 A Effective current, DC current	1 mA
Peak current > =10 A	10 mA
Resolution , Measurement < 10 A	10 mW
Active power > =10 A	100 mW

Programming & Controls

Output Control & Monitoring	Front panel and/or optional Analog 0 – +5V/+10V isolated / Digital 12 bit: RS232, RS485, IEEE488, LAN, USB, SD card

Ambient Conditions

Cooling	Fans
Operating temperature	0 – 50°C
Storage temperature	-20 – 70°C
Humidity	< 80%
Operating height	< 2.000 m
Weight	90 – 1.200 kg

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