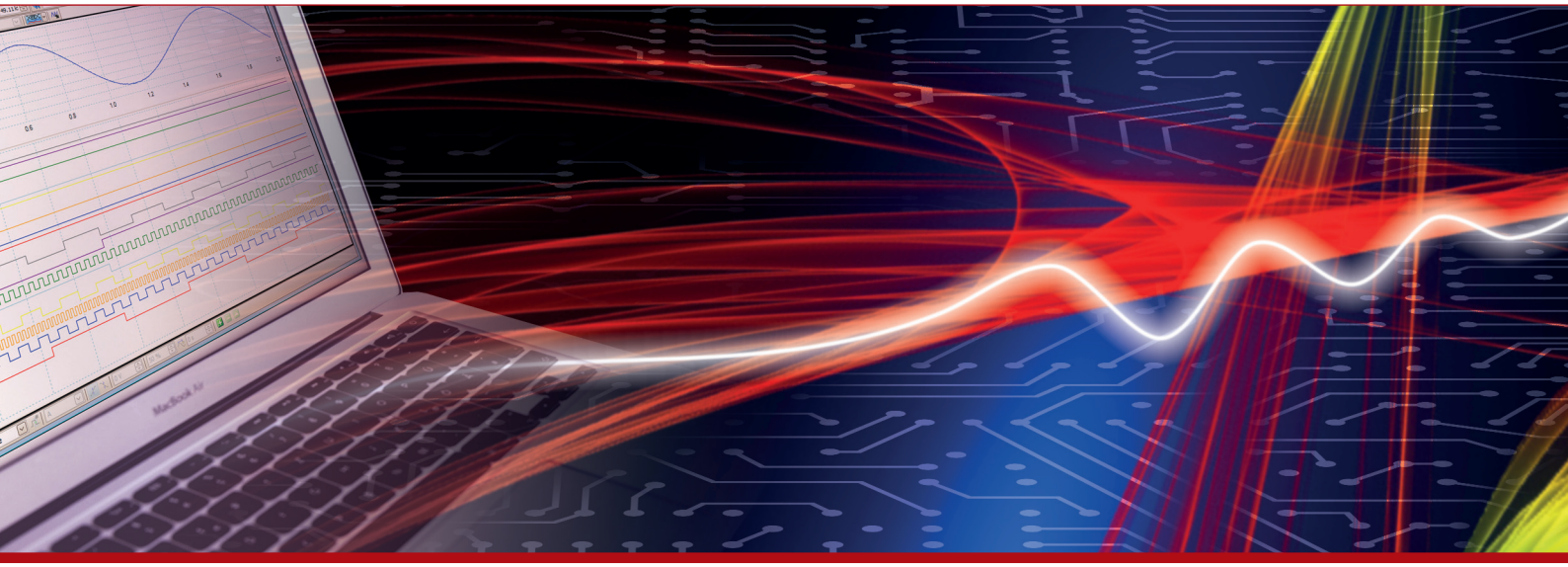
Product Datasheet - Technical Specifications



More information in our Web-Shop at ▸ **www.meilhaus.com** and in our download section.

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EAC/3SP Three-Phase

750 VA - 36.000 VA

ETSYSTEM®

3 x 19“ x 3 U x 620 mm

OVERVIEW

- **AC / DC and AC + DC operation**
- Power range from 250 VA to 36,000 VA
- 0 – 700 V AC / 1,000 V DC output voltages per phase
- Maximum currents up to 2,000 A per phase
- Variable frequencies ranging from 1 – 2.000 Hz (sine, square, triangle)
- Simulation of single- and three-phase networks (worldwide)
- Information via graphic display
- Measurement of: voltage, effective current, average and peak current, effective power, idle power, apparent power, power factor, crest factor
- Constant voltage and constant current operating modes
- 10 memory spaces to store current configurations
- External oscillator input ±10 V with adjustable time delay of up to 70 mS
- Free memory spaces for user-programmable curves (WAV files), enabled via an external memory card or interface
- Script control: process programming and booting from memory card
- Creation of user-defined curve shapes and programming via external memory card or digital interface
- Three non-volatile curve shapes (programming via memory card)
- Datalog function: current operation values can be saved to a memory card at adjustable time intervals
- Script operation, in combination with the Datalog function, enables an independent stand-alone test field to be set up
- Digital interfaces IEEE, RS232, RS485, USB, LAN (optional)
- Galvanically isolated 0 – 5 V or 0 – 10 V analogue interface (optional)
- SD card slot (optional)
- The drivers for the Lab View user interface can also be used in conjunction with a digital interface
- Sync input synchronizes the device with external sources (optional)
- Sync output triggers external measurement instruments or similar (optional)
- Disengageable output voltage via memory card or digital interface for a determined amount of half periods (optional)
- Connectable output voltage via memory card or digital interface for a determined amount of time (optional)
- Special versions available on request

PRODUCT EXAMPLES

Type	Power VA	Voltage V AC / V DC	Effective Current A	Dimensions
EAC/3SP 250	3 x 250	3 x 0 - 300 / 0 - 425	3 x 0 - 3	3 x 19" x 3U x 620 mm
EAC/3SP 500	3 x 500	3 x 0 - 300 / 0 - 425	3 x 0 - 6	3 x 19" x 3U x 620 mm
EAC/3SP 1500	3 x 1.500	3 x 0 - 300 / 0 - 425	3 x 0 - 10	3 x 19" x 3U x 620 mm
EAC/3SP 2000	3 x 2.000	3 x 0 - 300 / 0 - 425	3 x 0 - 15	3 x 19" x 6U x 620 mm
EAC/3SP 3000	3 x 3.000	3 x 0 - 300 / 0 - 425	3 x 0 - 20	3 x 19" x 6U x 620 mm
EAC/3SP 4500	3 x 4.500	3 x 0 - 300 / 0 - 425	3 x 0 - 30	3 x 19" x 9U x 620 mm
EAC/3SP 5000	3 x 5.000	3 x 0 - 300 / 0 - 425	3 x 0 - 35	3 x 19" x 9U x 620 mm
EAC/3SP 6000	3 x 6.000	3 x 0 - 300 / 0 - 425	3 x 0 - 40	3 x 19" x 9U x 620 mm
EAC/3SP 7500	3 x 7.500	3 x 0 - 300 / 0 - 425	3 x 0 - 50	3 x 19" x 9U x 620 mm
EAC/3SP 8000	3 x 8.000	3 x 0 - 300 / 0 - 425	3 x 0 - 60	3 x 19" x 12U x 620 mm
EAC/3SP 9000	3 x 9.000	3 x 0 - 300 / 0 - 425	3 x 0 - 70	3 x 19" x 12U x 620 mm
EAC/3SP 10500	3 x 10.500	3 x 0 - 300 / 0 - 425	3 x 0 - 80	3 x 19" x 12U x 620 mm
EAC/3SP 12000	3 x 12.000	3 x 0 - 300 / 0 - 425	3 x 0 - 90	3 x 19" x 18U x 620 mm

OPTIONS

Appendix	Description
../230	Input 230 / 207 - 253 V AC
../400	Input 400 / 360 - 440 V AC
../3P208	Input 3 x 208 / 187 - 229 V AC
../3P400	Input 3 x 400 / 360 - 440 V AC
../3P480	Input 3 x 480 / 432 - 528 V AC
../V500	Extended voltage range 0 - 500 V AC / 0 - 700 V DC -40 % Imax
../V700	Extended voltage range 0 - 700 V AC / 0 - 1.000 V DC -50 % Imax
../F1000	Extended freqency range 1 - 1.000 Hz
../F2000	Extended freqency range 1 - 2.000 Hz
../LT	Interface IEEE 488
../LTRS-485	Interface RS-485
../LTRS232	Interface RS-232
../LAN	Interface LAN
../USB	Interface USB
../ATI 5	Galvanically isolated analogue interface 0 - 5 V
../ATI 10	Galvanically isolated analogue interface 0 - 10 V
../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

TECHNICAL DATA

Input Voltage Specification

Input voltage range	230 V AC / 400 V AC / 3 x 208 V AC / 3 x 400 V AC / 3 x 480 V AC ±10%
Input frequency	47 - 63 Hz

Output Specification

Grid regulation	0,10%
Load control	0,10%
Distortion Pmax	0,15%
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 & Control

Output Control & Monitoring	Front panel and/or optional Analog 0 - +5V/+10V isolated/ Digital 12 bit: RS-232, RS-485, 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	30 - 400 kg