



ET SYSTEM

AC Power Sources 250 - 30.000 VA



New AC source Features & Specification EAC/S 250 - 30000 VA

- Power range from 250 to 30.000 VA
- Output voltage from 0 – 700 VAC or 1000 VDC per phase
- Variable frequency from 1 to 2000 Hz,
- Wave forms sine, triangle and rectangle
- Maximum current up to 80 A per phase
- Simulation of 1 or 3 phases
- Graphic Display
- Measurement of voltage, actual current, average value, peak current, actual power, no power, apparent power, Power- and crest factors
- Voltage and current mode operation
- Free memory for three programmable curves (WAV files), enabled via an external SD card. (option)
- Integrated measuring curves for different standards (EN, MIL....)
- Adjustable External Oscillator input $\pm 10\text{ V} \pm 360^\circ$ phase (option)
- Computer interface: IEEE, RS 232 / 485, USB, LAN (option)
- Customer specific models on request

Technical Data:

Typ	EAC 250	EAC 500	EAC 1000	EAC 2000	EAC 3000	EAC 4000
Power	250	500	1000	2000	3000	4000
Power de-rating @ $\cos < +/- 0,7$						
Output voltage range	0 – 300 VAC	0 – 300 VAC	0 – 300 VAC	0 – 300 VAC	0 – 300 VAC	0 – 300 VAC
Standard	0 – 425 VDC	0 – 425 VDC	0 – 425 VDC	0 – 425 VDC	0 – 425 VDC	0 – 425 VDC
Output voltage range (Option V 500)	0 – 500 VAC 0 – 700 VDC	0 – 500 VAC 0 – 700 VDC	0 – 500 VAC 0 – 700 VDC	0 – 500 VAC 0 – 700 VDC	0 – 500 VAC 0 – 700 VDC	0 – 500 VAC 0 – 700 VDC
Output voltage range (Option V 700)	0 – 700 VAC 0 – 1 KVDC	0 – 700 VAC 0 – 1 KVDC	0 – 700 VAC 0 – 1 KVDC	0 – 700 VAC 0 – 1 KVDC	0 – 700 VAC 0 – 1 KVDC	0 – 700 VAC 0 – 1 KVDC
Max. AC Current I eff	3 A	6 A	10 A	15 A	20 A	30 A
Option V500	1,8 A	3,6 A	6 A	9 A	12 A	18 A
Option V700	1,5 A	3,0 A	5 A	7,5 A	10 A	15 A
Max DC Current	3 A	6A	10 A	15 A	20 A	30 A
Option V500	1,8 A	3,6 A	6 A	9 A	12 A	18 A
Option V700	1,5 A	3,0 A	5 A	7,5 A	10 A	15 A
Line regulation	0,10%	0,10%	0,10%	0,10%	0,10%	0,10%
Load regulation	0,10%	0,10%	0,10%	0,10%	0,10%	0,10%
Distortion @ Pmax	0,10%	0,10%	0,10%	0,10%	0,10%	0,10%
Programming Accuracy AC voltage	100 mV	100 mV	100 mV	100 mV	100 mV	100 mV
Programming Accuracy DC Voltage	100 mV	100 mV	100 mV	100 mV	100 mV	100 mV
Programm Accuracy Current I eff	10 mA	10 mA	10 mA	10 mA	10 mA	10 mA
Programm Accuracy Switch-On stage	0,1°	0,1°	0,1°	0,1°	0,1°	0,1°
Programm Accuracy Frequency	0,1Hz	0,1Hz	0,1Hz	0,1Hz	0,1Hz	0,1Hz
Frequency Standard	500Hz	500Hz	500Hz	500Hz	500Hz	500Hz
External Oszillator input	0-10V / 1kHz	0-10V / 1kHz	0-10V / 1kHz	0-10V / 1kHz	0-10V / 1kHz	0-10V / 1kHz
resolution measurement U eff, DC- voltage, U s-s	10 mV	10 mV	10 mV	10 mV	10 mV	10 mV
resolution measurement I eff, I s-s	1mA	1mA	1mA	1mA	1mA	1mA
resolution measurement real power	10mW	10mW	10mW	10mW	10mW	10mW
ANALOG Interface -Galvanic isolated (Option ATI 5)	0 - 5V	0 - 5 V	0 - 5 V	0 - 5 V	0 - 5 V	0 - 5 V
ANALOG Interface -Galvanic isolated Option ATI 10)	0 - 10 V	0 - 10 V	0 - 10 V	0 - 10 V	0 - 10 V	0 - 10 V
Computer Interface Galvanic isolated	Option	Option	Option	Option	Option	Option
RS232, RS485, IEEE488, LAN, USB						
19" enclosure / cabinet (W x H x D)	19" x 4 HE x 434,5 mm	19" x 4 HE x 434,5 mm	19" x 6 HE x 434,5 mm	19" x 6 HE x 434,5 mm	19" x 10 HE x 434,5 mm	19" x 16 HE x 600 mm

Technical Data:

Typ	EAC 5000	EAC 6000	EAC 7000	EAC 8000	EAC 9000	EAC 10000
Power	5000	6000	7000	8000	9000	10.000
Derating at < +/- 0,7						
Output voltage range	0 – 300 VAC	0 – 300 VAC	0 – 300 VAC	0 – 300 VAC	0 – 300 VAC	0 – 300 VAC
Standard	0 – 425 VDC	0 – 425 VDC	0 – 425 VDC	0 – 425 VDC	0 – 425 VDC	0 – 425 VDC
Output voltage range (Option V 500)	0 – 500 VAC 0 – 700 VDC	0 – 500 VAC 0 – 700 VDC	0 – 500 VAC 0 – 700 VDC	0 – 500 VAC 0 – 700 VDC	0 – 500 VAC 0 – 700 VDC	0 – 500 VAC 0 – 700 VDC
Output voltage range (Option V 700)	0 – 700 VAC 0 – 1 KVDC	0 – 700 VAC 0 – 1 KVDC	0 – 700 VAC 0 – 1 KVDC	0 – 700 VAC 0 – 1 KVDC	0 – 700 VAC 0 – 1 KVDC	0 – 700 VAC 0 – 1 KVDC
Max. AC Current I eff Option V500 Option V700	35 A 21 A 17,5 A	40 A 24 A 20 A	50 A 30 A 25 A	60 A 36 A 30 A	70 A 42 A 35 A	80 A 48 A 40 A
Max DC Current Option V500 Option V700	35 A 21 A 17,5 A	40 A 24 A 20 A	50 A 30 A 25 A	60 A 36 A 30 A	70 A 42 A 35 A	80 A 48 A 40 A
Line regulation	0,10%	0,10%	0,10%	0,10%	0,10%	0,10%
Load regulation	0,10%	0,10%	0,10%	0,10%	0,10%	0,10%
Distortion @ Pmax	0,10%	0,10%	0,10%	0,10%	0,10%	0,10%
Programming Accuracy AC voltage	100 mV	100 mV	100 mV	100 mV	100 mV	100 mV
Programming Accuracy DC voltage	100 mV	100 mV	100 mV	100 mV	100 mV	100 mV
Programming Accuracy Current I eff	10 mA	10 mA	10 mA	10 mA	10 mA	10 mA
Programming Accuracy Switch-On stage	0,1°	0,1°	0,1°	0,1°	0,1°	0,1°
Programming Accuracy Frequency	0,1Hz	0,1Hz	0,1Hz	0,1Hz	0,1Hz	0,1Hz
Frequency Standard	500Hz	500Hz	500Hz	500Hz	500Hz	500Hz
External Oszillator input	0-10V / 1kHz	0-10V / 1kHz	0-10V / 1kHz	0-10V / 1kHz	0-10V / 1kHz	0-10V / 1kHz
resolution measurement U eff, DC- voltage, U p-p	10 mV	10 mV	10 mV	10 mV	10 mV	10 mV
resolution measurement I eff, I p-p	1mA	1mA	1mA	1mA	1mA	1mA
resolution measurement real power	10mW	10mW	10mW	10mW	10mW	10mW
ANALOG Interface - Galvanic isolated (Option ATI 5)	0 - 5 V	0 - 5 V	0 - 5 V	0 - 5 V	0 - 5 V	0 - 5 V
ANALOG Interface - Galvanic isolated Option ATI 10)	0 - 10 V	0 - 10 V	0 - 10 V	0 - 10 V	0 - 10 V	0 - 10 V
Computer Interface Galvanic isolated RS 232, RS485, IEEE488, LAN, USB	Option	Option	Option	Option	Option	Option
19" enclosure / cabinet	19" x 16 HE x 600 mm	19" x 16 HE x 600 mm	19" x 16 HE x 600 mm	19" x 20 HE x 780 mm	19" x 20 HE x 780 mm	19" x 20 HE x 780 mm

Options:

V500:	0 – 500 VAC / 0 – 700 VDC
V700:	0 – 700 VAC / 0 – 1000 VDC
F1000:	1 – 1000 Hz
F2000:	1 – 2000 Hz
IEEE:	IEEE 488 Interface
RS 232:	RS232 Interface
RS485:	RS485 Interface
USB:	USB Interface
LAN:	LAN Interface
ATI 5:	external galvanic isolated Interface 0 – 5 V
ATI 10:	external galvanic isolated Interface 0 – 10 V
SD:	SD card