

SE-AS 1-Phase AC Power Sources 250 - 10.000 VA



FEATURES OF THE SE-AS-1 250 SERIES AC SOURCE – 10000VA

The new AC source of the SE-AS 250 series is equipped with a proven linear power stage for securely supplying the load power applications. The various computer connections provide for a state-of-the-art connection of the AC source to all common communications means.

Measurement and input values as well as programmable wave forms are graphically displayed by means of a high-resolution and high-luminosity display. Via an external SD slot the user can capture his already programmed waves through a SD card. Additionally, the user can access permanently stored waves.

OVERVIEW

- Power range from 250 to 10.000 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 DATAS

Typ	SE-AS 250	SE-AS 500	SE-AS 1000	SE-AS 2000	SE-AS 3000	SE-AS 4000
Power de-rating @ cos <+/-0,7	250 VA	500 VA	1000 VA	2000 VA	3000 VA	4000 VA
Output voltage range Standard	0-300VAC 0-425VDC	0-300VAC 0-425VDC	0-300VAC 0-425VDC	0-300VAC 0-425VDC	0-300VAC 0-425VDC	0-300VAC 0-425VDC
Output voltage range (Option V 500)	0-500VAC 0-700VDC	0-500VAC 0-700VDC	0-500VAC 0-700VDC	0-500VAC 0-700VDC	0-500VAC 0-700VDC	0-500VAC 0-700VDC
Output voltage range (Option V 700)	0-700VAC 0-1KVDC	0-700VAC 0-1KVDC	0-700VAC 0-1KVDC	0-700VAC 0-1KVDC	0-700VAC 0-1KVDC	0-700VAC 0-1KVDC
Max. AC Current I eff	3A	6A	10A	15A	20A	30A
Option V500	1,8A	3,6A	6A	9A	12A	18A
Option V700	1,5A	3,0A	5A	7,5A	10A	15A
Max DC Current	3A	6A	10A	15A	20A	30A
Option V500	1,8A	3,6A	6A	9A	12A	18A
Option V700	1,5A	3,0A	5A	7,5A	10A	15A
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	100mV	100mV	100mV	100mV	100mV	100mV
Programming Accuracy DC Voltage	100mV	100mV	100mV	100mV	100mV	100mV
Programm Accuracy Current I eff	10mA	10mA	10mA	10mA	10mA	10mA
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 resolution measurement	0-10V/1kHz 10mV	0-10V/1kHz 10mV	0-10V/1kHz 10mV	0-10V/1kHz 10mV	0-10V/1kHz 10mV	0-10V/1kHz 10mV
U eff, DC-voltage, U s-s resolution measurement	1mA	1mA	1mA	1mA	1mA	1mA
I eff, I s-s resolution measurement	10mW	10mW	10mW	10mW	10mW	10mW
ANALOG Interface -Galvanic isolated (Option ATI 5)	0-5V	0-5V	0-5V	0-5V	0-5V	0-5V
ANALOG Interface -Galvanic isolated (Option ATI 10)	0-10V	0-10V	0-10V	0-10V	0-10V	0-10V
Computer Interface Galvanic isolated	Option	Option	Option	Option	Option	Option
RS232, RS485, IEEE488, LAN, USB	Option	Option	Option	Option	Option	Option
19" enclosure / cabinet (WxHxD)	19"x4Ux 434,5 mm	19"x4Ux 434,5 mm	19"x6Ux 434,5 mm	19"x6Ux 434,5 mm	19"x10Ux 434,5 mm	19"x16Ux 600 mm

TECHNICAL DATAS

Typ	SE-AS 5000	SE-AS 6000	SE-AS 7000	SE-AS 8000	SE-AS 9000	SE-AS 10000
Power Derating at < +/- 0,7	5000 VA	6000 VA	7000 VA	8000 VA	9000 VA	10000 VA
Output voltage range Standard	0-300VAC 0-425VDC	0-300VAC 0-425VDC	0-300VAC 0-425VDC	0-300VAC 0-425VDC	0-300VAC 0-425VDC	0-300VAC 0-425VDC
Output voltage range (Option V 500)	0-500VAC 0-700VDC	0-500VAC 0-700VDC	0-500VAC 0-700VDC	0-500VAC 0-700VDC	0-500VAC 0-700VDC	0-500VAC 0-700VDC
Output voltage range (Option V 700)	0-700VAC 0-1KVDC	0-700VAC 0-1KVDC	0-700VAC 0-1KVDC	0-700VAC 0-1KVDC	0-700VAC 0-1KVDC	0-700VAC 0-1KVDC
Max. AC Current I eff Option V500 Option V700	35A 21A 17,5A	40A 24A 20A	50A 30A 25A	60A 36A 30A	70A 42A 35A	80A 48A 40A
Max DC Current Option V500 Option V700	35A 21A 17,5A	40A 24A 20A	50A 30A 25A	60A 36A 30A	70A 42A 35A	80A 48A 40A
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	100mV	100mV	100mV	100mV	100mV	100mV
Programming Accuracy DC voltage	100mV	100mV	100mV	100mV	100mV	100mV
Programming Accuracy Current I eff	10mA	10mA	10mA	10mA	10mA	10mA
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	10mV	10mV	10mV	10mV	10mV	10mV
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)	0-5V	0-5V	0-5V	0-5V	0-5V	0-5V
ANALOG Interface - Galvanic isolated Option ATI 10)	0-10V	0-10V	0-10V	0-10V	0-10V	0-10V
Computer Interface Galvanic isolated	Option	Option	Option	Option	Option	Option
RS 232, RS485, IEEE488, LAN, USB	Option	Option	Option	Option	Option	Option
19" enclosure/cabinet	19"x16Ux 600 mm	19"x16Ux 600 mm	19"x16Ux 600 mm	19"x20Ux 780 mm	19"x20Ux 780 mm	19"x20Ux 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
EXT	OSZ external oscillator input
SD	SD card slot