

e-Sentinel



Protection guaranteed

e-Sentinel guarantees protection of the devices connected to it in the event of a power failure, impulsive overvoltages from the mains power supply and mains voltage fluctuations.

Minimum consumption

e-Sentinel is a range of UPS systems with LINE INTERACTIVE technology and sine output voltage; this technology provides a reduction in energy consumption and 98% efficiency.

Voltage stability

e-Sentinel's automatic voltage regulator (AVR) is able, for mains voltage variations not exceeding + 21% / - 25%, to stabilize the output voltage at values between -15% / +11%. For voltage variations greater than + 21% / - 25%, the unit powers the load from the battery via the inverter, providing an output voltage stabilized at $\pm 5\%$.

Timer for programmed shutdown (via software)

This feature allows fully automatic programmed and timed start-ups and shutdowns.



Automatic restart

The UPS is programmed to restart automatically when the mains power supply returns after switching off due to the end of back-up time following a prolonged power failure.

Total microprocessor control

Digital control improves system reliability considerably, allows reductions in dimensions and weight, and significantly increases control and communication capabilities.

Battery optimization

The UPS periodically and automatically performs a battery efficiency test. The batteries are recharged by means of a rapid charge battery charger. The UPS is thus always guaranteed maximum back-up time. It also comes with a device to protect against deep discharges, which can reduce the expected life of the batteries.

Protection of the telephone line

e-Sentinel comes with a RJ45/RJ11 Net/Tel socket to guarantee the protection of its telephone or network line from any overvoltages.

Advanced communication

The Aros Watch & Save software ensures effective and intuitive management of the UPS. Important information such as the input and output voltage, the load applied, the remaining back-up time, etc., is displayed in the form of bar graphs. The software is able to provide information even in the event of a failure, and can also programme the UPS for automatic weekly start-up and shutdown.

Extending the back-up time

Battery expansion is envisaged for the e-Sentinel 200 model, so as to increase the back-up time of the UPS.

Applications

Small/medium computer networks, Local Area Networks (LAN), Workstations, Servers, EPOS (Electronic Point of Sale) systems.





Input	e 50	e 75	e 100	e 150	e 200
Nominal voltage	230 V				
Accepted voltage range	-25% +21% (without battery discharging)				
Input frequency	50/60 Hz (autosense)				
Accepted frequency	±10%				
Output	e 50	e 75	e 100	e 150	e 200
Power (VA/W)	500/335	750/500	1000/670	1500/1000	2000/1340
Nominal voltage (in battery operation)	230 V ±5%				
Nominal voltage (in mains operation)	the AVR circuit regulates the output voltage from +11% to -15% with input variation of -25% +21%				
Wave form	sinewave				
Voltage distortion	<2%				
Frequency variation (in battery operation)	50/60 Hz autosetting , ±1%				
Output sockets	No. 4 IEC 320 (10A)				
System	e 50	e 75	e 100	e 150	e 200
Transfer time	2 ms				
Batteries (No./V/Ah)	2/12/7	2/12/7	2/12/9	4/12/7	5/12/7
Battery type	maintenance free sealed lead-acid				
Battery recharging time	approx 8 h				
AC-AC efficiency	98%				
Communication port	USB, RS232, Slot for communication cards				
Protections	overcurrent – short circuit – excessive battery discharge – overvoltage undervoltage - overtemperature				
Noise at 1 m	<40 dBA				
Operating temperature	0÷40 °C , optimal for batteries +15 ÷ +25 °C				
Humidity	90 % non-condensing				
Standards	safety EN 62040-1, EMC IEC 62040-2 and EN 50091-2 lev. B, Directives 73/23, 93/68, 89/336 EEC, EN 62040-3, surge IEC 801-5				
Telephone line protection	RJ45/RJ11 type filtered socket				

Power (VA)	Model	Back-up (min)	Batteries	Dimensions WxDxH (mm)	Weight (kg)
500	e-Sentinel 50	8	Internal	158x400x231	13
750	e-Sentinel 75	5	Internal	158x400x231	14
1000	e-Sentinel 100	5	Internal	158x400x231	14
1500	e-Sentinel 150	6	Internal	158x400x231	20
2000	e-Sentinel 200	6	Internal	158x485x340	25

Battery cabinets for longer autonomy

Power (VA)	Model	Back-up (min)	Batteries	Dimensions WxDxH (mm)	Weight (kg)
2000	Batt. exp. S5 A7	20	5x7Ah	158x565x340	16
2000	Batt. exp. S5 A12	30	5x12Ah	158x565x340	24