

Sentinel 5 UPS from 700 to 5000 VA



The Sentinel 5 range uses ON-LINE double conversion (VFI) technology whereby the load is always powered by the inverter which ensures a filtered and stabilized sinusoidal voltage. Furthermore the input and output filters significantly increase the immunity of the load to mains noise and lightning. The features and performance of the Sentinel 5 series enable it to protect the following applications: small computer networks, Local Area Networks (LAN), servers, electro-medical and emergency equipment.

LED Display

Located on the front of the unit, allows easy use of the UPS.

RS232 communication port

Enables direct communication between UPS and PC.

EPO "Emergency Power Off" connector

(5000VA version only)
This contact is used to shut down the UPS and disconnect the load in an emergency.



Design

ADI award

Colour

Dark grey RAL 7024

Wheels

Frequency converter

Automatic by-pass

(also manual on 5000VA model)
Zero time switch ensuring that the load is powered even in the event of a UPS failure due to overload or fault.

Back Feed Protection

This safety device is triggered in the event of a mains failure; it isolates the UPS from the input plug thus preventing voltage back feed on the line that could put the user at risk.

Battery Saving

This saves the batteries from excessive consumption, thus extending their lifetime. In the event of micro mains supply interruptions, the UPS draws energy directly from the capacitors.

Automatic and manual battery test

Deep discharge protection
This device increases the end of discharge voltage of batteries with low loads ensuring, in this way, that the batteries are not damaged by deep discharges.

SENTINEL 5 - 5000

Ext. battery

Technical data

Input

	S5 700	S5 1000	S5 1500	S5 2000	S5 3000	S5 4000	S5 5000
Nominal voltage	220-230-240 Vac						
Voltage range enabling mains operation	170-276 Vac					176-276 Vac	170-276 Vac
Input frequency	50/60 Hz autorange \pm 5Hz						
Current distortion (THDI)	<8%						10%
Power factor	>0,93			>0,99			>0,98

Output

	S5 700	S5 1000	S5 1500	S5 2000	S5 3000	S5 4000	S5 5000
Nominal power	700VA (450W)	1000VA (700W)	1500VA (1050W)	2000VA (1400W)	3000VA (2100W)	4000VA (2400W)	5000VA (3500W)
Nominal voltage	230 Vac		230 Vac (selectable 220/240) \pm 2%				
Wave form	sinusoidal						
Voltage distortion at linear load	<3%						
Voltage distortion at distorting load	<5%						
Frequency	50 or 60 Hz autorange			50 or 60 Hz selectable			
Current crest factor	3:1				3,5:1		3:1
Overload	150% In per 2 ms						
Output connections	4 IEC320				2 Schuko		terminals

System

	S5 700	S5 1000	S5 1500	S5 2000	S5 3000	S5 4000	S5 5000
Transfer time	0 ms (no break)						
AC - AC efficiency	90%						
Batteries: Number/Volt/Ampere	2/12V/7Ah	3/12V/7Ah	5/12V/7Ah	6/12V/7Ah	10/12V/7Ah		15/12V/7Ah
Communication port	RS232						
Protections	Excessive battery discharge-overcurrent-short circuit-overvoltage-undervoltage-temperature						
Noise	<40 dBA at 1m.						<45 dBA at 1 m.
Operating temperature	0 \pm 40°C, recommended operating temperature +15°C +25°C						
EMC compliance	IEC555-2, Directive 89/336 EEC, 92/31 EEC, 93/68 EEC EN 50091 - 2 level B						EN 50091-2 level A
Safety compliance	EN 50091 - 1 - 1 and Directive 73/23/EEC, 93/68 EEC						

Other characteristics

Power (VA)	Models	Code	Autonomy (min.)	Dimensions W x D x H (mm)	Weight (kg)	Batteries
700	Sentinel 5 - 700	6S5A70010A	5	158x376x231	7	inside UPS
1000	Sentinel 5 - 1000	6S5A1K010A	6	158x376x231	10	inside UPS
1500	Sentinel 5 - 1500	6S5A1K510A	6	158x485x340	23	inside UPS
2000	Sentinel 5 - 2000	6S5A2K010A	6	158x485x340	27	inside UPS
3000	Sentinel 5 - 3000	6S5A3K010A	7	158x590x480	43	inside UPS
4000	Sentinel 5 - 4000	6S5A4K010A	6	158x590x480	44	inside UPS
5000	Sentinel 5 - 5000	6S5A5K010A	6	230x650x530	65	inside UPS



Watch & Save Software

Watch & Save Aros proprietary software, compatible with the most common computer systems, allows the management and control of the UPS from a PC and, in the event of a mains failure, permits the saving of data and the sequential shutdown of the connected computer systems.

Code	Models
6SOFT024A	Software AROS Watch & Save Standard version (for Windows, Linux and Novell Netware)
6SOFT025A	Software AROS Watch & Save Professional version (for all operating systems)



Accessories

Remote panel

A LEDs display allows the UPS control and monitoring from a remote location.

Battery expandability

The standard UPS back-up time can be expanded by means of additional battery modules. When very high back-up is required, battery expansion comes equipped with a battery charger to reduce recharging time.

Insulation transformer

Located on the input or output of the UPS Unit. Its function is to create a UPS output system that is separated from the input power supply system. The output neutral is connected to earth thus improving noise protection.

NetMan

This accessory is used to connect the UPS to a LAN network of computer systems supporting all the Watch & Save software functions. (Connected to the UPS by means of RS232 port).



Teleguard

Is a system for remote control of UPSs connected via serial line, network or modem.



Accessories

Code	Models
6FAES01A	RS232/dry contacts transformer module for Sentinel 5
6IFARH03A	Remote Panel for Sentinel 5 Range
6SOFT020A	NetMan 101 SNMP agent for Ethernet mains
6SOFT022A	NetMan 103 SNMP agent for Token-Ring mains
6SOFT017A	Multiplexer for Sentinel 5 - 5 outputs
6SOFT018A	Multiplexer for Sentinel 5 - 10 outputs
6SOFT009A	AS/400 software kit
6SOFT023A	USB converter for RS232
6TIA1K5M1A	Insulation transformer 1 - 1,5 kVA
6TIA3K0M1A	Insulation transformer 2 - 3 kVA
6TIA5K0M1A	Insulation transformer 5 kVA

Additional battery cabinets for longer autonomy

Power (VA)	Models	Code	Total autonomy (min.)	Dimensions W x D x H (mm)	Weight (kg)	Batteries
1000	Batt. cabinet S5 A12	6ABA012P03A	30	158x376x231	16	3x12Ah
1500	Batt. cabinet S5 A7	6ABA007P05A	20	158x565x340	16	5x7Ah
1500	Batt. cabinet S5 A12	6ABA012P05A	30	158x565x340	24	5x12Ah
1500	Batt. cabinet S5 A24*	6ABA024C05A	60	158x565x340	45	5+5x12Ah
2000	Batt. cabinet S5 A7	6ABA007P06A	20	158x565x340	19	6x7Ah
2000	Batt. cabinet S5 A12	6ABA012P06A	30	158x565x340	28	6x12Ah
2000	Batt. cabinet S5 A12*	6ABA012C06A	30	158x565x340	30	6x12Ah
3000	Batt. cabinet S5 A7	6ABA007P10A	20	158x565x340	28	10x7Ah
3000	Batt. cabinet S5 A12	6ABA012P10A	30	158x565x340	44	10x12Ah
3000	Batt. cabinet S5 A12*	6ABA012C10A	30	158x565x340	46	10x12Ah
4000	Batt. cabinet S5 A7	6ABA007P10A	15	158x565x340	28	10x7Ah
4000	Batt. cabinet S5 A12	6ABA012P10A	30	158x565x340	44	10x12Ah
5000	Batt. cabinet S5 A7	6ABA007P15A	20	230x650x528	70	15x7Ah
5000	Batt. cabinet S5 A12*	6ABA012C15A	30	230x650x528	100	15x12Ah
5000	Batt. cabinet S5 A24*	6ABA024C15A	60	230x650x528	170	30x12Ah

(*) With battery charger to shorten the recharging time