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AROS PARTNER



**Uninterruptible
Power Supply
from 350VA to 10kVA**



AROS

THE SCIENCE OF CONTINUITY

Sentinel 6



Absolute protection

Sentinel 6 is a range of UPSs with ON-LINE double conversion technology and with “zero” transfer time. The load is always powered by the inverter, which supplies true sinusoidal voltage that is free from electrical interference.

High immunity against Electromagnetic Disturbances

The unit will have high immunity against the electromagnetic disturbances coming from intended Radio frequency emitters according to the standard IEC 61000-4-2 (Level 4) IEC 61000-4-2 (Level 3) IEC 61000-4-4 (Level 4), IEC 61000-4-5 (Level 4). Total microprocessor control Digital control of the appliance considerably improves system reliability, reduces unit dimensions and weight, and significantly increases control and communications capabilities.

Battery optimization

The UPS periodically performs a battery efficiency test. The batteries are not activated during micro interruptions (40 ms), which are the most common type of mains interference, since the required power is drawn from the capacitors banks. This system (battery saving) extends the life of the batteries. The Sentinel 6 range will also include the deep battery discharge feature to protect the battery.

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.



Communication slot

Sentinel 6 comes with an expansion slot for optional communication boards which make Sentinel 6 compatible with the main communication options: Netman 102, MultiCom 302, RS232 + RS485 ports, Multi Com 352.



The UPS comes with an expansion slot for optional communication boards such as Netman and MultiCom.





SENTINEL 6 - 700



SENTINEL 6 - 1000/1500



SENTINEL 6 - 2000



SENTINEL 6 - 3000

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.

Extending the back-up time

Battery expansion is envisaged to increase the back-up time of the UPS. For longer back-up time it is available Sentinel 6 POWER without internal batteries but with powerful battery recharger.

Reduced noise

Through the use of high frequency components and fan speed control, the noise level of the UPS is under 45 dBA.

Stand-by

When stand-by mode is selected, the inverter is switched off and the battery charges. This is useful when the unit is not in use.

Protection of the telephone line

Sentinel 6 comes with an RJ45/RJ11 Net/Tel socket to guarantee the protection of its telephone or network line against any overvoltages.

Applications

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



Sentinel 6

Technical data



Input	S6-700	S6-1000	S6-1000 POWER	S6-1500	S6-2000	S6-2000 POWER	S6-3000	S6-3000 POWER
Input Rectifier								
Nominal voltage	220 - 230 - 240 V							
Min. Voltage without battery discharging	170 V							
Nominal frequency	50 / 60 Hz							
Power factor	> 0,97							
Nominal current (A)	2,7	3,6	4,8	7,2	7,5	10	10,5	14
Input bypass								
Input voltage range	180-264 V							
Input frequency tolerance	± 5%							
Output								
Power (VA/W)	700/490	1000/700	1000/700	1500/1050	2000/1400	2000/1400	3000/2100	3000/2100
Nominal voltage	220 - 230 - 240 V							
Wave form	sinusoidal							
Voltage stability - steady state	1.5 %							
Voltage stability - dynamic state	< 5 % in 20 ms							
Voltage distortion @ linear load	≤ 3%							
Voltage distortion @ non-linear load (EN 50091-1-1)	≤ 5%							
Frequency	autosense							
Frequency tolerance	± 0,2%							
Crest factor	3 : 1							
Overload	110% for 30 min, 130% for 30 s, 150% In for 10 s, > 150% for 500 ms							
Output sockets	No. 4 IEC 320 (10A)			No. 6 IEC 320 (10A)			No. 6 IEC 320 (10A) No. 1 IEC 320 (16A)	
System								
Transfer time	0 ms							
AC-AC efficiency	86%					88%		
Batteries (No./V/Ah)	2/12/7	3/12/7	-	4/12/7	8/12/7	-	8/12/7	-
Communication ports	RS232 + Communication Slot (TCP/IP, HTTP,SNMP, JBUS, MODBUS, PROFIBUS)							
Protections	excessive battery discharge - overcurrent - shortcircuit - overvoltage - undervoltage - overtemperature							
Noise at 1mt	< 45 dBA							
Operating temperature	0 ÷ 40°C, optimal for batteries 15 ÷ 25°C							
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							
Battery charger (A)	1	1	4	1	1	8	1	8
Telephone line protection	RJ45/RJ11 type filtered socket							

Sentinel 6

Power (VA)	Model	Back-up (min)	Batteries	Dimensions WxDxH (mm)	Weight (kg)
700	Sentinel 6 700	6	Internal	158x400x231	12
1000	Sentinel 6 1000	6	Internal	158x400x231	14
1000	Sentinel 6 1000 POWER	-	-	158x400x231	8
1500	Sentinel 6 1500	6	Internal	158x500x231	19
2000	Sentinel 6 2000	10	Internal	192x460x340	34
2000	Sentinel 6 2000 POWER	-	-	192x460x340	14
3000	Sentinel 6 3000	6	Internal	192x460x340	35
3000	Sentinel 6 3000 POWER	-	Internal	192x460x340	14

Battery cabinets for longer autonomy

Power (VA)	Model	Back-up (min)	Batteries	Dimensions WxDxH (mm)	Weight (kg)
1000	Batt. exp. S6 A7*	20	3x7Ah	158x400x231	15
1000	Batt. exp. S6 A12*	30	3x12Ah	158x400x231	19
1000 POWER	Batt. exp. S6 A24	40	3+3x12Ah	158x473x340	33
1000 POWER	Batt. exp. S6 A24+A24	90	2x(3+3x12Ah)	2x(158x473x340)	66
1500	Batt. exp. S6 A7	15	4x7Ah	158x400x231	17,5
1500	Batt. exp. S6 A12	25	4x12Ah	158x400x231	23
1500	Batt. exp. S6 A24	50	4+4x12Ah	158x473x340	41
2000	Batt. exp. S6 A7	30	8x7Ah	158x473x340	30
2000	Batt. exp. S6 A12	45	8x12Ah	158x473x340	41
2000 POWER	Batt. exp. S6 A12+A12	60	2x(8x12Ah)	2x(158x473x340)	82
2000 POWER	Batt. exp. S6 A38	120	8x38Ah	215x655x630	131
2000 POWER	Batt. exp. S6 A38+A38	240	2x(8x38Ah)	2x(215x655x630)	262
3000	Batt. exp. S6 A7	15	8x7Ah	158x473x340	30
3000	Batt. exp. S6 A12	25	8x12Ah	158x473x340	41
3000 POWER	Batt. exp. S6 A12+A12	35	2x(8x12Ah)	2x(158x473x340)	82
3000 POWER	Batt. exp. S6 A38	60	8x38Ah	215x655x630	131
3000 POWER	Batt. exp. S6 A38+A38	180	2x(8x38Ah)	2x(215x655x630)	262

* This battery cabinet can not be used in parallel with other battery cabinets.

Sentinel 6 Rack



Absolute protection

Sentinel 6 Rack is a range of UPSs with ON- LINE double conversion technology and with “zero” transfer time.

The load is always powered by the inverter, which supplies true sinusoidal voltage that is free from electrical interference.

High immunity against Electromagnetic Disturbances

The unit will have high immunity against the electromagnetic disturbances coming from intended Radio frequency emitters according to the standard IEC 61000-4-2 (Level 4) IEC 61000-4-2 (Level 3) IEC 61000-4-4 (Level 4), IEC 61000-4-5 (Level 4). Total microprocessor control Digital control of the appliance considerably improves system reliability, reduces unit dimensions and weight, and significantly increases control and communications capabilities.

Battery optimization

The UPS periodically performs a battery efficiency test. The batteries are not activated during micro interruptions (40 ms), which are the most common type of mains interference, since the required power is drawn from the capacitors banks.

This system (battery saving) extends the life of the batteries.

The Sentinel 6 Rack range will also include the deep battery discharge feature to protect the battery.

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.

Communication slot

Sentinel 6 Rack comes with an expansion slot for optional communication boards which make Sentinel 6 Rack compatible with the main communication options: Netman 102, MultiCom 302, RS232 + RS485 ports, Multi Com 352.

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.

Extending the back-up time

Battery expansion is envisaged to increase the back-up time of the UPS. For longer back-up time it is available Sentinel 6 Rack POWER without internal batteries but with powerful battery recharger.



Manual By -pass 16A

Reduced noise

Through the use of high frequency components and fan speed control, the noise level of the UPS is under 45 dBA.

Stand-by

When stand-by mode is selected, the inverter is switched off and the battery charges. This is useful when the unit is not in use.

Protection of the telephone line

Sentinel 6 Rack comes with an RJ45/RJ11 Net/Tel socket to guarantee the protection of its telephone or network line against any overvoltages.

Manual By-Pass

The By-pass provides the possibility of excluding a UPS for maintenance without any interruptions or disturbances of the load supply.

Applications

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



Sentinel 6 Rack

Technical data



Input Rectifier	S6R 700	S6R 1000	S6R 1000 POWER	S6R 1500	S6R 2200	S6R 2200 POWER	S6R 3000	S6R 3000 POWER
Nominal voltage	220-230-240 V							
Min. Voltage without battery discharging	170 V							
Nominal frequency	50 / 60 Hz							
Power factor	>97%							
Nominal current (A)	3,8	5	6,2	7,2	10	13,8	14,4	16
Input bypass	S6R 700	S6R 1000	S6R 1000 POWER	S6R 1500	S6R 2200	S6R 2200 POWER	S6R 3000	S6R 3000 POWER
Input voltage range	180-264 V							
Input frequency tolerance	± 5%							
Output	S6R 700	S6R 1000	S6R 1000 POWER	S6R 1500	S6R 2200	S6R 2200 POWER	S6R 3000	S6R 3000 POWER
Nominal power (VA/W)	700/490	1000/700	1000/700	1500/1050	2200/1540	2200/1540	3000/2100	3000/2100
Nominal voltage	220-230-240 V							
Wave form	sinusoidal							
Voltage stability	static 1,5%, dynamic ≤ 5%							
Voltage distortion	≤ 3% (linear load), ≤ 6% (non-linear load)							
Frequency	50/60 Hz +/- 2%							
Crest factor	3:1							
Overload	110% for 30 min, 130% for 30 s, 150% In for 10 s, > 150% for 500 ms							
System	S6R 700	S6R 1000	S6R 1000 POWER	S6R 1500	S6R 2200	S6R 2200 POWER	S6R 3000	S6R 3000 POWER
Transfer time	0ms							
AC-AC efficiency	86%				88%			
Batteries: No./V/Ah	2/12/7	3/12/7	/	4/12/7	8/12/7	/	8/12/7	/
Communication ports	RS232 + Communication slot (TCP/IP, HTTP, SNMP, JBUS, MODBUS, Profibus)							
Protections	overcurrent – short circuit – excessive battery discharge – overvoltage – undervoltage – overtemperature							
Noise at 1 m	<45 dBA							
Operating temperature	0-40° C, optimal for batteries +15 ÷ +25°C							
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							

Sentinel 6 Rack

Power (VA)	Model	Back-up (min)	Batteries	Dimensions WxDxH (mm)	Weight (kg)
700	Sentinel 6 Rack 700	6	In UPS	19"x390x2U	13
1000	Sentinel 6 Rack 1000	6	In UPS	19"x390x2U	16
1000	Sentinel 6 Rack 1000 POWER	—	—	19"x390x2U	9
1500	Sentinel 6 Rack 1500	6	In UPS	19"x480x2U	21
2200	Sentinel 6 Rack 2200	10	In UPS	19"x480x2U+U2	38
2200	Sentinel 6 Rack 2200 POWER	—	—	19"x480x2U	13
3000	Sentinel 6 Rack 3000	6	In UPS	19"x480x2U+2U	38
3000	Sentinel 6 Rack 3000 POWER	—	—	19"x480x2U	14

Battery cabinets for longer autonomy

Power (VA)	Model	Back-up (min)	Batteries	Dimensions WxDxH (mm)	Weight (kg)
1000	Batt. exp. S6R A7	20	3x7Ah	19"x390x2U	12
1000	Batt. exp. S6R A14	30	3+3x7Ah	19"x390x2U	19
1000 POWER	2 x (Batt.exp. S6R A14)	45	2x(3+3x7Ah)	2x(19"x390x2U)	38
1500	Batt. exp. S6R A7	15	4x7Ah	19"x480x2U	15
1500	Batt. exp. S6R A14	28	4+4x7Ah	19"x480x2U	25
2200	Batt. exp. S6R A7	30	8x7Ah	19"x480x2U	25
2200 POWER	4 x (Batt. exp. S6R A7)	60	4x(8x7Ah)	4x(19"x480x2U)	100
3000	Batt. exp. S6R A7	15	8x7Ah	19"x480x2U	25
3000 POWER	3x(Batt. exp. S6R A7)	30	3x(8x7Ah)	3x(19"x480x2U)	75

Note
 1 U= 44,83 mm
 19"= 483 mm