

SENTINEL 6 700 - 3000VA

Uninterruptible Power Supply

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 3000 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 Plus, MultiCom 302, RS232+RS485 ports, Multi Com 352.



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Uninterruptible Power Supply

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.

Note:

2 years warranty

SENTINEL 6 700 - 3000VA

Uninterruptible Power Supply

INPUT	S6 700	S6 1000	S6 1000 POWER	S6 1500	S6 2000
Power factor	> 0.97				
Accepted frequency	±10%				
Input frequency	50/60 Hz				
Voltage	220 - 230 - 240 V				
Voltage range without battery contribution	170 V				
OUTPUT	S6 700	S6 1000	S6 1000 POWER	S6 1500	S6 2000
Voltage distortion with distorting load	<5%				
Voltage distortion with linear load	<3%				
Crest factor (Ipeak/Irms)	3 : 1				
Waveform	Sinusoidal				
Frequency	50 or 60 Hz (autosense)				
Phases number	1				
Output sockets	No. 4 IEC 320 (10A)				No. 6 IEC 320 (10A)
Rated power	700 VA	1000 VA	1500 VA	2000 VA	
Active power	490 W	700 W	1050 W	1400 W	
Dynamic stability	<5% in 20 ms				
Static stability	1,5%				
Frequency tolerance	±0,2%				
Rated voltage	220-230-240 V				
OVERLOAD	S6 700	S6 1000	S6 1000 POWER	S6 1500	S6 2000
100% < Load < 110%	30'				
100% = Load < 150%	30"				
Load = 150%	10"				
BY PASS	S6 700	S6 1000	S6 1000 POWER	S6 1500	S6 2000
Frequency tolerance	±5%				
Voltage tolerance	180 - 264 V				
BATTERIES	S6 700	S6 1000	S6 1000 POWER	S6 1500	S6 2000
Type	Maintenance free sealed lead acid			Maintenance free sealed lead acid	
Batteries number	2	3	0	4	8
Battery blocks	12V/7Ah			12V/7Ah	
SYSTEM	S6 700	S6 1000	S6 1000 POWER	S6 1500	S6 2000
Colour	Dark grey				
Communication slot	RS232 + Communication slot (TCP/IP, HTTP, SNMP, JBUS, MODBUS, PROFIBUS)				
Protections	Overcurrent - short-circuit - overvoltage - undervoltage - overtemperature				
AC/AC efficiency	86%	88%			
Noise	< 45 dBA at 1 mt				

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Uninterruptible Power Supply

Operating temperature	0°C / +40°C, optimal for batteries +15°C/+25°C				
Transfer time	0 ms				
Standards	Safety: EN 62040-1-1, Directives 73/23EC and 93/68/EC EMC: IEC 62040-2; EN 50091-2 lev. B, Directives 2004/108/EC and 89/336/EC; EN 62040-3				
Battery charger	1	4	1		
OPTIONS	S6 700	S6 1000	S6 1000 POWER	S6 1500	S6 2000
Battery cabinets for longer runtimes	Not available	Yes			
Communication software “professional” version	Yes				
DATA	S6 700	S6 1000	S6 1000 POWER	S6 1500	S6 2000
Weight (kg)	12	14	8	19	34
Dimensions (WxDxH) mm	158x400x231			158x500x231	192x460x340
Back up time at full load (min)	6		0	6	10
Input phases	1				
Output phases	1				
Technology	On-line double conversion				
Installation	Tower				
Configuration	Single Unit				

SENTINEL 6 700 - 3000VA

Uninterruptible Power Supply

INPUT	S6 2000 POWER		S6 3000	S6 3000 POWER
Power factor	> 0.97			
Accepted frequency	±10%			
Input frequency	50/60 Hz			
Voltage	220 - 230 - 240 V			
Voltage range without battery contribution	170 V			
OUTPUT	S6 2000 POWER		S6 3000	S6 3000 POWER
Voltage distortion with distorting load	<5%			
Voltage distortion with linear load	<3%			
Crest factor (Ipeak/Irms)	3 : 1			
Waveform	Sinusoidal			
Frequency	50 or 60 Hz (autosense)			
Phases number	1			
Output sockets	No. 4 IEC 320 (10A)	No. 6 IEC 320 (10A) no. 1 IEC 320 (16A)		
Rated power	2000 VA	3000 VA		
Active power	1400 W	2100 W		
Dynamic stability	<5% in 20 ms			
Static stability	1,5%			
Frequency tolerance	±0,2%			
Rated voltage	220-230-240 V			
OVERLOAD	S6 2000 POWER		S6 3000	S6 3000 POWER
100% < Load < 110%	30'			
100% = Load < 150%	30"			
Load = 150%	10"			
BY PASS	S6 2000 POWER		S6 3000	S6 3000 POWER
Frequency tolerance	±5%			
Voltage tolerance	180 - 264 V			
BATTERIES	S6 2000 POWER		S6 3000	S6 3000 POWER
Type		Maintenance free sealed lead acid		
Batteries number	0	8		0
Battery blocks		12V/7Ah		
SYSTEM	S6 2000 POWER		S6 3000	S6 3000 POWER
Colour	Dark grey			
Communication slot	RS232 + Communication slot (TCP/IP, HTTP, SNMP, JBUS, MODBUS, PROFIBUS)			
Protections	Overcurrent - short-circuit - overvoltage - undervoltage - overtemperature			
AC/AC efficiency	88%			
Noise	< 45 dBA at 1 mt			

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Uninterruptible Power Supply

Operating temperature	0°C / +40°C, optimal for batteries +15°C/+25°C		
Transfer time	0 ms		
Standards	Safety: EN 62040-1-1, Directives 73/23EC and 93/68/EC EMC: IEC 62040-2; EN 50091-2 lev. B, Directives 2004/108/EC and 89/336/EC; EN 62040-3		
Battery charger	8	1	8
OPTIONS	S6 2000 POWER	S6 3000	S6 3000 POWER
Battery cabinets for longer runtimes	Yes		
Communication software "professional" version	Yes		
DATA	S6 2000 POWER	S6 3000	S6 3000 POWER
Weight (kg)	14	35	14
Dimensions (WxDxH) mm	192x460x340		
Back up time at full load (min)	0	6	0
Input phases	1		
Output phases	1		
Technology	On-line double conversion		
Installation	Tower		
Configuration	Single Unit		

OPZIONI S6 700

MultiCom 351
 MultiCom 352
 MultiCom 301
 MultiCom 302
 NetMan 101 Plus
 NetMan 102 Plus
 USB converter
 Multi I/O
 IRMS Multi-Switch
 AS/400 interface kit
 External by-pass cabinet rack 16A
 Multifunction I/O
 Profibus DP Gateway

OPZIONI S6 1000

MultiCom 351
 MultiCom 352
 MultiCom 301
 MultiCom 302
 NetMan 101 Plus
 NetMan 102 Plus
 USB converter

SENTINEL 6 700 - 3000VA

Uninterruptible Power Supply

Multi I/O

IRMS Multi-Switch

AS/400 interface kit

External by-pass cabinet rack 16A

Multifunction I/O

Profibus DP Gateway

OPZIONI S6 1500

MultiCom 351

MultiCom 352

MultiCom 301

MultiCom 302

NetMan 101 Plus

NetMan 102 Plus

USB converter

Multi I/O

IRMS Multi-Switch

AS/400 interface kit

External by-pass cabinet rack 16A

Multifunction I/O

Profibus DP Gateway

OPZIONI S6 2000

MultiCom 351

MultiCom 352

MultiCom 301

MultiCom 302

NetMan 101 Plus

NetMan 102 Plus

USB converter

Multi I/O

IRMS Multi-Switch

AS/400 interface kit

External by-pass cabinet rack 16A

Multifunction I/O

Profibus DP Gateway

OPZIONI S6 3000

MultiCom 351

MultiCom 352

MultiCom 301

MultiCom 302

NetMan 101 Plus

NetMan 102 Plus

USB converter

Multi I/O

IRMS Multi-Switch

AS/400 interface kit

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Uninterruptible Power Supply

External by-pass cabinet rack 16A

Multifunction I/O

Profibus DP Gateway

OPZIONI S6 1000 POWER

MultiCom 351

MultiCom 352

MultiCom 301

MultiCom 302

NetMan 101 Plus

NetMan 102 Plus

USB converter

Multi I/O

IRMS Multi-Switch

AS/400 interface kit

External by-pass cabinet rack 16A

Multifunction I/O

Profibus DP Gateway

OPZIONI S6 2000 POWER

MultiCom 351

MultiCom 352

MultiCom 301

MultiCom 302

NetMan 101 Plus

NetMan 102 Plus

USB converter

Multi I/O

IRMS Multi-Switch

AS/400 interface kit

External by-pass cabinet rack 16A

Multifunction I/O

Profibus DP Gateway

OPZIONI S6 3000 POWER

MultiCom 351

MultiCom 352

MultiCom 301

MultiCom 302

NetMan 101 Plus

NetMan 102 Plus

USB converter

Multi I/O

IRMS Multi-Switch

AS/400 interface kit

External by-pass cabinet rack 16A

Multifunction I/O

Profibus DP Gateway

SENTINEL 6 RACK 700 - 3000VA

Uninterruptible Power Supply

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.

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 3000 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.

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 1000-4-5 (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.

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 Plus, MultiCom 302, RS232 +RS485 ports, MultiCom 352.



SENTINEL 6 RACK 700 - 3000VA

Uninterruptible Power Supply

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

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

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.

Applications

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

Note:

2 years warranty

SENTINEL 6 RACK 700 - 3000VA

Uninterruptible Power Supply

INPUT	S6 RACK 700	S6 RACK 1000	S6 RACK 1000 POWER	S6 RACK 1500	S6 RACK 2200
Power factor	> 0.97%				
Input frequency	50/60 Hz				
Voltage	220 - 230 - 240 V				
Voltage range without battery contribution	170 V				
OUTPUT	S6 RACK 700	S6 RACK 1000	S6 RACK 1000 POWER	S6 RACK 1500	S6 RACK 2200
Voltage distortion with distorting load	<6%				
Voltage distortion with linear load	<3%				
Crest factor (Ipeak/Irms)	3:1				
Waveform	Sinusoidal				
Frequency	50/60 Hz				
Phases number	1				
Rated power	700 VA	1000 VA		1500 VA	2200 VA
Active power	490 W	700 W		1050 W	1540 W
Dynamic stability	<5%	≤5%	<5%		
Frequency tolerance	±2%				
Rated voltage	220-230-240 V				
OVERLOAD	S6 RACK 700	S6 RACK 1000	S6 RACK 1000 POWER	S6 RACK 1500	S6 RACK 2200
100% < Load < 110%	30'				
100% = Load < 150%	30"				
Load > 150%	500 ms				
BY PASS	S6 RACK 700	S6 RACK 1000	S6 RACK 1000 POWER	S6 RACK 1500	S6 RACK 2200
Rated voltage	180-264 V				
Frequency tolerance	± 0,5%				
BATTERIES	S6 RACK 700	S6 RACK 1000	S6 RACK 1000 POWER	S6 RACK 1500	S6 RACK 2200
Type	Maintenance-free sealed lead-acid			Maintenance-free sealed lead-acid	
Batteries number	2	3	0	4	8
Battery blocks	12V/7Ah			12V/7Ah	
SYSTEM	S6 RACK 700	S6 RACK 1000	S6 RACK 1000 POWER	S6 RACK 1500	S6 RACK 2200
Colour	Dark grey				
Communication slot	RS 232 + Communication slot (TCP/IP, HTTP, SNMP, JBUS, MODBUS, PROFIBUS)				
Protections	Overcurrent - short-circuit - excessive battery discharge - overvoltage - undervoltage - overtemperature				
AC/AC efficiency	86%	88%			
Noise	<45 dBA at 1 m				
Operating temperature	0 - 40 °C, ideal for batteries +15°C+25 °C				

SENTINEL 6 RACK 700 - 3000VA

Uninterruptible Power Supply

Transfer time	0 ms				
Standards	Safety: EN 62040-1-1, Directives 73/23EC and 93/68/EC; EMC: IEC 62040-2; EN 50091-2 lev. B, Directives 2004/108/EC and 89/336/EC; EN 62040-3				
OPTIONS	S6 RACK 700	S6 RACK 1000	S6 RACK 1000 POWER	S6 RACK 1500	S6 RACK 2200
Battery cabinets for longer runtimes	Not available	Yes			
Communication software “professional” version	Yes				
DATA	S6 RACK 700	S6 RACK 1000	S6 RACK 1000 POWER	S6 RACK 1500	S6 RACK 2200
Weight (kg)	13	16	9	21	35
Dimensions (WxDxH) mm	19"x390x2U			19"x480x2U	19"x560x3U
Back up time at full load (min)	6		0	6	10
Input phases	1				
Output phases	1				
Technology	On-line double conversion				
Installation	Rack				
Configuration	Single Unit				

SENTINEL 6 RACK 700 - 3000VA

Uninterruptible Power Supply

INPUT	S6 RACK 2200 POWER		S6 RACK 3000	S6 RACK 3000 POWER
Power factor	> 0.97%			
Input frequency	50/60 Hz			
Voltage	220 - 230 - 240 V			
Voltage range without battery contribution	170 V			
OUTPUT	S6 RACK 2200 POWER		S6 RACK 3000	S6 RACK 3000 POWER
Voltage distortion with distorting load	<6%			
Voltage distortion with linear load	<3%			
Crest factor (Ipeak/Irms)	3:1			
Waveform	Sinusoidal			
Frequency	50/60 Hz			
Phases number	1			
Rated power	2200 VA	3000 VA		
Active power	1540 W	2100 W		
Dynamic stability	<5%			
Frequency tolerance	±2%			
Rated voltage	220-230-240 V			
OVERLOAD	S6 RACK 2200 POWER		S6 RACK 3000	S6 RACK 3000 POWER
100% < Load < 110%	30'			
100% = Load < 150%	30"			
Load > 150%	500 ms			
BY PASS	S6 RACK 2200 POWER		S6 RACK 3000	S6 RACK 3000 POWER
Rated voltage	180-264 V			
Frequency tolerance	± 0,5%			
BATTERIES	S6 RACK 2200 POWER		S6 RACK 3000	S6 RACK 3000 POWER
Type		Maintenance-free sealed lead-acid		
Batteries number	0	8		0
Battery blocks		12V/7Ah		
SYSTEM	S6 RACK 2200 POWER		S6 RACK 3000	S6 RACK 3000 POWER
Colour	Dark grey			
Communication slot	RS 232 + Communication slot (TCP/IP, HTTP, SNMP, JBUS, MODBUS, PROFIBUS)			
Protections	Overcurrent - short-circuit - excessive battery discharge - overvoltage - undervoltage - overtemperature			
AC/AC efficiency	88%			
Noise	<45 dBA at 1 m			
Operating temperature	0 - 40 °C, ideal for batteries +15°C+25 °C			
Transfer time	0 ms			

SENTINEL 6 RACK 700 - 3000VA

Uninterruptible Power Supply

Standards	Safety: EN 62040-1-1, Directives 73/23EC and 93/68/EC; EMC: IEC 62040-2; EN 50091-2 lev. B, Directives 2004/108/EC and 89/336/EC; EN 62040-3		
OPTIONS	S6 RACK 2200 POWER	S6 RACK 3000	S6 RACK 3000 POWER
Battery cabinets for longer runtimes	Yes		
Communication software "professional" version	Yes		
DATA	S6 RACK 2200 POWER	S6 RACK 3000	S6 RACK 3000 POWER
Weight (kg)	13	36	14
Dimensions (WxDxH) mm	19"x480x2U	19"x560x3U	19"x480x2U
Back up time at full load (min)	0	6	0
Input phases	1		
Output phases	1		
Technology	On-line double conversion		
Installation	Rack		
Configuration	Single Unit		

OPZIONI S6 RACK 700

MultiCom 351
 MultiCom 352
 MultiCom 301
 MultiCom 302
 NetMan 101 Plus
 NetMan 102 Plus
 Multi I/O
 IRMS Multi-Switch
 AS/400 interface kit
 External by-pass cabinet rack 16A
 Multifunction I/O
 Profibus DP Gateway

OPZIONI S6 RACK 1000

MultiCom 351
 MultiCom 352
 MultiCom 301
 MultiCom 302
 NetMan 101 Plus
 NetMan 102 Plus
 Multi I/O
 IRMS Multi-Switch
 AS/400 interface kit
 External by-pass cabinet rack 16A
 Multifunction I/O

SENTINEL 6 RACK 700 - 3000VA

Uninterruptible Power Supply

Profibus DP Gateway

OPZIONI S6 RACK 1500

MultiCom 351

MultiCom 352

MultiCom 301

MultiCom 302

NetMan 101 Plus

NetMan 102 Plus

Multi I/O

IRMS Multi-Switch

AS/400 interface kit

External by-pass cabinet rack 16A

Multifunction I/O

Profibus DP Gateway

OPZIONI S6 RACK 2200

MultiCom 351

MultiCom 352

MultiCom 301

MultiCom 302

NetMan 101 Plus

NetMan 102 Plus

Multi I/O

IRMS Multi-Switch

AS/400 interface kit

External by-pass cabinet rack 16A

Multifunction I/O

Profibus DP Gateway

OPZIONI S6 RACK 3000

MultiCom 351

MultiCom 352

MultiCom 301

MultiCom 302

NetMan 101 Plus

NetMan 102 Plus

Multi I/O

IRMS Multi-Switch

AS/400 interface kit

External by-pass cabinet rack 16A

Multifunction I/O

Profibus DP Gateway

OPZIONI S6 RACK 2200 POWER

MultiCom 351

MultiCom 352

MultiCom 301

MultiCom 302

SENTINEL 6 RACK 700 - 3000VA

Uninterruptible Power Supply

NetMan 101 Plus
NetMan 102 Plus
Multi I/O
IRMS Multi-Switch
AS/400 interface kit
External by-pass cabinet rack 16A
Multifunction I/O
Profibus DP Gateway

OPZIONI S6 RACK 1000 POWER

MultiCom 351
MultiCom 352
MultiCom 301
MultiCom 302
NetMan 101 Plus
NetMan 102 Plus
Multi I/O
IRMS Multi-Switch
AS/400 interface kit
External by-pass cabinet rack 16A
Multifunction I/O
Profibus DP Gateway

OPZIONI S6 RACK 3000 POWER

MultiCom 351
MultiCom 352
MultiCom 301
MultiCom 302
NetMan 101 Plus
NetMan 102 Plus
Multi I/O
IRMS Multi-Switch
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