

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.

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.

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INPUT	S6 RACK 700	S6 RACK 1000	S6 RACK 1000 POWER	S6 RACK 1500
Voltage	220 - 230 - 240 V			
Voltage range without battery contribution	170 V			
Input frequency	50/60 Hz			
Power factor	> 0.97%			
Input phases	1			
BY PASS	S6 RACK 700	S6 RACK 1000	S6 RACK 1000 POWER	S6 RACK 1500
Rated voltage	180-264 V			
Frequency tolerance	± 0,5%			
BATTERIES	S6 RACK 700	S6 RACK 1000	S6 RACK 1000 POWER	S6 RACK 1500
Type	Maintenance-free sealed lead-acid			Maintenance-free sealed lead-acid
Battery blocks	12V/7Ah			12V/7Ah
Batteries number	2	3	0	4
OUTPUT	S6 RACK 700	S6 RACK 1000	S6 RACK 1000 POWER	S6 RACK 1500
Rated power	700 VA	1000 VA		1500 VA
Active power	490 W	700 W		1050 W
Phases number	1			
Waveform	Sinusoidal			
Rated voltage	220-230-240 V			
Voltage distortion with distorting load	<6%			
Voltage distortion with linear load	<3%			
Frequency	50/60 Hz			
Frequency tolerance	±2%			
Dynamic stability	<5%	<=5%	<5%	
Crest factor (I _{peak} /I _{rms})	3:1			
Output phases	1			
SYSTEM	S6 RACK 700	S6 RACK 1000	S6 RACK 1000 POWER	S6 RACK 1500
Transfer time	0 ms			
AC/AC efficiency	86%	88%		
Noise	<45 dBA at 1 m			
Operating temperature	0 - 40 °C, ideal for batteries +15°C+25 °C			
Protections	Overcurrent - short-circuit - excessive battery discharge - overvoltage - undervoltage - overtemperature			
Communication slot	RS 232 + Communication slot (TCP/IP, HTTP, SNMP, JBUS, MODBUS, PROFIBUS)			
Colour	Dark grey			
Standards	Safety: EN 62040-1-1 and directive 2006/95/EC; EMC: EN 62040-2 and directive 2004/108/EC			
Technology	On-line double conversion			
Weight (kg)	13 Kg	16 Kg	9 Kg	21 Kg
Dimensions (WxDxH) mm	19'x390x2U mm			19'x480x2U mm
OVERLOAD	S6 RACK 700	S6 RACK 1000	S6 RACK 1000 POWER	S6 RACK 1500
100% < Load < 110%	30'			
100% = Load < 150%	30'			

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Load > 150%	500 ms			
DATA	S6 RACK 700	S6 RACK 1000	S6 RACK 1000 POWER	S6 RACK 1500
Back up time at full load (min)	6 Min.		0 Min.	6 Min.
Installation	Rack			
Configuration	Single Unit			
OPTIONS	S6 RACK 700	S6 RACK 1000	S6 RACK 1000 POWER	S6 RACK 1500
Battery cabinets for longer runtimes	Not available	Yes		
Communication software 'professional' version	Yes			
OPTIONS	S6 RACK 700	S6 RACK 1000	S6 RACK 1000 POWER	S6 RACK 1500
MultiCom 351	X	X	X	X
MultiCom 352	X	X	X	X
MultiCom 301	X	X	X	X
MultiCom 302	X	X	X	X
NetMan 101 Plus	X	X	X	X
NetMan 102 Plus	X	X	X	X
Multi I/O	X	X	X	X
IRMS Multi-Switch	X	X	X	X
AS/400 interface kit	X	X	X	X
External by-pass cabinet rack 16A	X	X	X	X
Multifunction I/O	X	X	X	X
MultiCom 401	X	X	X	X

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INPUT	S6 RACK 2200	S6 RACK 2200 POWER	S6 RACK 3000	S6 RACK 3000 POWER
Voltage	220 - 230 - 240 V			
Voltage range without battery contribution	170 V			
Input frequency	50/60 Hz			
Power factor	> 0.97%			
Input phases	1			
BY PASS	S6 RACK 2200	S6 RACK 2200 POWER	S6 RACK 3000	S6 RACK 3000 POWER
Rated voltage	180-264 V			
Frequency tolerance	± 0,5%			
BATTERIES	S6 RACK 2200	S6 RACK 2200 POWER	S6 RACK 3000	S6 RACK 3000 POWER
Type	Maintenance-free sealed lead-acid		Maintenance-free sealed lead-acid	
Battery blocks	12V/7Ah		12V/7Ah	
Batteries number	8	0	8	0
OUTPUT	S6 RACK 2200	S6 RACK 2200 POWER	S6 RACK 3000	S6 RACK 3000 POWER
Rated power	2200 VA		3000 VA	
Active power	1540 W		2100 W	
Phases number	1			
Waveform	Sinusoidal			
Rated voltage	220-230-240 V			
Voltage distortion with distorting load	<6%			
Voltage distortion with linear load	<3%			
Frequency	50/60 Hz			
Frequency tolerance	±2%			
Dynamic stability	<5%			
Crest factor (Ipeak/Irms)	3:1			
Output phases	1			
SYSTEM	S6 RACK 2200	S6 RACK 2200 POWER	S6 RACK 3000	S6 RACK 3000 POWER
Transfer time	0 ms			
AC/AC efficiency	88%			
Noise	<45 dBA at 1 m			
Operating temperature	0 - 40 °C, ideal for batteries +15°C+25 °C			
Protections	Overcurrent - short-circuit - excessive battery discharge - overvoltage - undervoltage - overtemperature			
Communication slot	RS 232 + Communication slot (TCP/IP, HTTP, SNMP, JBUS, MODBUS, PROFIBUS)			
Colour	Dark grey			
Standards	Safety: EN 62040-1-1 and directive 2006/95/EC; EMC: EN 62040-2 and directive 2004/108/EC			
Technology	On-line double conversion			
Weight (kg)	35 Kg	13 Kg	36 Kg	14 Kg
Dimensions (WxDxH) mm	19'x560x3U mm	19'x480x2U mm	19'x560x3U mm	19'x480x2U mm
OVERLOAD	S6 RACK 2200	S6 RACK 2200 POWER	S6 RACK 3000	S6 RACK 3000 POWER
100% < Load < 110%	30'			
100% = Load < 150%	30'			

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Load > 150%	500 ms			
DATA	S6 RACK 2200	S6 RACK 2200 POWER	S6 RACK 3000	S6 RACK 3000 POWER
Back up time at full load (min)	10 Min.	0 Min.	6 Min.	0 Min.
Installation	Rack			
Configuration	Single Unit			
OPTIONS	S6 RACK 2200	S6 RACK 2200 POWER	S6 RACK 3000	S6 RACK 3000 POWER
Battery cabinets for longer runtimes	Yes			
Communication software 'professional' version	Yes			
OPTIONS	S6 RACK 2200	S6 RACK 2200 POWER	S6 RACK 3000	S6 RACK 3000 POWER
MultiCom 351	X	X	X	X
MultiCom 352	X	X	X	X
MultiCom 301	X	X	X	X
MultiCom 302	X	X	X	X
NetMan 101 Plus	X	X	X	X
NetMan 102 Plus	X	X	X	X
Multi I/O	X	X	X	X
IRMS Multi-Switch	X	X	X	X
AS/400 interface kit	X	X	X	X
External by-pass cabinet rack 16A	X	X	X	X
Multifunction I/O	X	X	X	X
MultiCom 401	X	X	X	X