

SENTINEL XRT 6,5-10kVA

Uninterruptible Power Supply

Absolute protection

Sentinel XR 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 a true sinusoidal voltage and current free from electrical interference.

Maximum versatility

Sentinel XR can either be placed on the floor or inserted in a 19" Rack. The UPS can be converted from the Tower version to the Rack version simply by rotating the control panel to 90° and applying the handles.

Easy battery replacement

The batteries can be replaced while the UPS is working off the Inverter (hot swap replacement) without any disturbances to the load.

Stand-by

When the UPS is not used, it can be set to stand-by mode. The inverter will be switched off and the battery is kept charged. This operating mode is suitable for Emergency Escape Lighting (CPSS- Central Power Supply System) as per standard EN 50171.

Communication slot

Sentinel XR is provided with an expansion slot for optional communication cards that enable the UPS to dialog using the main communication standards such as:

second RS232 port, serial port duplexer, Ethernet network agent with TCP/IP, HTTP and SNMP protocol, RS232 + RS485 port with JBUS / MODBUS protocol, signalling relay card.

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, 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.

Four operating modes

- On Line (VFI): The load is powered by the Inverter and the output power supply is independent from the input supply voltage and frequency fluctuations. - Eco Mode: To optimise the efficiency the load is powered from the mains as preferred source. If the mains voltage exceeds the tolerance values, the UPS switches to the normal ON LINE double conversion operating mode. - Smart Active: When the power supply quality is very unstable of course the user is unable to define which is the best operating mode between On line or ECOMode. Smart Active function solves this problem as it selects the best operation



mode depending on the input power quality. - Stand-by-off:

When mains power is available the UPS will not power the load; when mains is not available the UPS will power the load using the battery power supply. This feature makes the UPS ideal for emergency lighting power supply.

Advanced diagnostics

A backlit display provides the most important measurements relating to the UPS.

Extending the back-up time

Battery expansion is envisaged to increase the back-up time of the UPS. Battery chargers can be used to reduce recharging times.

Programmable output socket

Using UPSTools configuration software it is possible to set the cut-off sequence of the output sockets. It is a very important feature in emergency conditions to be able to classify the loads by different priorities.

Manual By-Pass

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

Applications

Servers, Local Area Networks (LAN), data centers, telecommunications, Industrial equipment, electro-medical equipment, Emergency Lighting.

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INPUT	XRT 6500	XRT 8000	XRT 10000
Voltage	400 Vac three-phase + N		
Voltage range without battery contribution	164 V @ 100% load (84 V @ 50% load)		
Input frequency	50/60 Hz		
Accepted frequency	± 5 Hz		
Current distortion	< 6%		
Power factor	> 0.95		
Input phases	3		
BY PASS	XRT 6500	XRT 8000	XRT 10000
Voltage tolerance	180 - 264 V (selectable in Economy Mode and Smart Active Mode)		
Frequency tolerance	Selected frequency ±5% (user configurable)		
BATTERIES	XRT 6500	XRT 8000	XRT 10000
Battery blocks	12V/7Ah	12V/9Ah	
Batteries number	20		
OUTPUT	XRT 6500	XRT 8000	XRT 10000
Rated power	6500 VA	8000 VA	10000 VA
Active power	5200 W	6400 W	8000 W
Phases number	1		
Waveform	Sinewave		
Rated voltage	220-230-240 V (selectable)		
Voltage distortion with distorting load	< 6%		
Voltage distortion with linear load	< 3%		
Frequency	50 / 60 Hz selectable		
Crest factor (I _{peak} /I _{rms})	3 : 1 (up to 100% load)		
Output phases	1		
Output sockets	IN/OUT terminal board + no. 2 IEC (A)		
SYSTEM	XRT 6500	XRT 8000	XRT 10000
Transfer time	0 ms (2 ms Eco mode)		
AC/AC efficiency	90%		
Line-Interactive/Smart Active efficiency	98%		
Noise	< 45 dBA at 1 m		
Operating temperature	0°C to +40°C, optimal for batteries +15°C to +25°C		
Protections	Overcurrent - short-circuit - excessive battery discharge - overvoltage - undervoltage - overtemperature		
Communication slot	RS232 + communication slot (TCP/IP, HTTP, SNMP, JBUS, MODBUS, PROFIBUS)		
Accessories provided	2 output supply cables 10A; 1 plug IEC-16A; software; serial cable; tools for mimic panel		
Colour	Dark grey RAL 7016		
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)	64 Kg	80 Kg	85 Kg
Dimensions (WxDxH) mm	2x (175x660x455) tower / 2x (19'x660x4U) rack mm		
OVERLOAD	XRT 6500	XRT 8000	XRT 10000
Load > 150%	0.5'		

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100% < Load < 125%	1'		
125% = Load < 150%	4'		
DATA	XRT 6500	XRT 8000	XRT 10000
Back up time at full load (min)	8 Min.	6 Min.	
Installation	Tower & Rack		
Configuration	Single Unit		
OPTIONS	XRT 6500	XRT 8000	XRT 10000
Battery cabinets for longer runtimes	Yes		
Auxiliary serial connection	Yes		
Communication software	Yes		
Communication software 'professional' version	Yes		
OPTIONS	XRT 6500	XRT 8000	XRT 10000
MultiCom 351	X	X	X
MultiCom 352	X	X	X
MultiCom 301	X	X	X
MultiCom 302	X	X	X
NetMan 101 Plus	X	X	X
NetMan 102 Plus	X	X	X
MultiCom 362	X	X	X
MultiCom 372	X	X	X
MultiCom 382	X	X	X
Multi I/O	X	X	X
IRMS Multi-Switch	X	X	X
AS/400 interface kit	X	X	X
MultiCom 401	X	X	X