

Sentinel XR PLUS 5-10kVA

Sentinel XR Plus is the ideal solution for powering vital mission critical, sensitive loads such as electro-medical security applications. The series includes 5kVA-6kVA single/single phase and 6.5kVA-8kVA-10kVA single/single phase and three/single phase models and uses double conversion on-line technology (VFI). The load is powered constantly by the inverter which supplies filtered, stabilized and regulated sine wave voltage. Moreover, the input and output filters increase the immunity of the load against mains power disturbances and lightning strikes. Sentinel XR Plus is without doubt one of the best UPS systems on the market today thanks to the technology used, the features (selectable Economy Mode and Smart Mode) and the diagnostics offered (custom LCD display, RS232 and USB interfaces complete with Watch&Save 3000 software, EPO contact and slots for optional interface boards)

Simplified installation

- The UPS can be connected to both single phase and three phase mains supplies
- Output terminal board + 2 IEC plugs to power local equipment (computers, modems, etc.)
- Easy to move thanks to built-in wheels.

High battery reliability

- Automatic and manual battery tests.
- Low Ripple Current Discharge system

“LRCD” to prolong battery life

- Unlimited extendable runtime thanks to dedicated modular design Battery Boxes
- Increased ride-through for mains failures up to 40ms (high hold up time) and for fluctuations in the input current ranging from 84V to 276V)

Low impact on mains power

- Sinusoidal input current on single phase/single phase series



Illustrative photo

High UPS reliability

- Full microprocessor control with no break static and maintenance bypass.
- Features guaranteed up to 40°C (the components are designed to operate at high temperatures and thus are subject to less stress at ordinary temperatures)

Selectable operating modes

The operating mode can be programmed using the software or selected manually on the digital front panel display

- On line Mode (VFI).
- Economy Mode: increases efficiency (up to 98%), and uses Line Interactive (VI) technology to power low priority loads from the mains supply.
- Smart Active Mode: the UPS automatically decides which operating mode to use (VI or VFI) depending on the quality of the mains supply.
- Emergency Mode: the UPS can be set to operate only when mains power fails (emergency only mode).
- Frequency converter Mode (50 or 60 Hz)

High quality output voltage

- Even with distorting loads (IT loads with crest factor of up to 3:1).
- High short circuit current on bypass.
- High overload capacity: 150% on inverter, even when mains power fails.
- Filtered, stabilised and reliable voltage (double conversion on-line technology, VFI compliant with EN62040-3 specifications) with filters to suppress atmospheric interference.

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- Rephasing of the load: UPS input power factor close to 1 with sinusoidal current absorption

Other features

- Filtered, stabilised and reliable current (double conversion on-line technology, VFI compliant with EN62040-3 specifications) with filters to suppress atmospheric interference
- Advanced diagnostics: status, measurements and alarms available on the custom LCD display
- Very low noise level (<40dBA): for installation in any environment thanks to the PWM digitally controlled ventilation that is load dependent, and the use of an inverter with high switching frequency (>20kHz, value above the audible range)
- Autorestart when mains power returns, can be programmed using software or the digital front panel display
- Emergency mode: the UPS can be programmed to work only when mains power fails (suitable for emergency lighting)
- Standard back feed protection: to avoid

current being fed back into the mains system

- Digital updating of the UPS (flash upgradable)

Advanced communication

- Compatible with the AROS TeleNetGuard remote assistance system
- Advanced, multi-platform communication for all operating systems and network environments: Watch&Save 3000 monitoring and shut-down software included, for Windows 2008, Vista, 2003, XP; Mac OS X,

Linux, Novell and most popular Unix operating systems

- RS232 serial port.
- Plug and Play
- Slots for communication interface boards

Applications

- Local Area Networks LAN
- Data centers
- Servers
- Industrial PLCs
- Cash register
- Electro-medical devices
- Emergency devices lights/alarms



Illustrative photo

Technical data

Models	XRP 5000	XRP 6000	XRP 6500	XRP 8000
Input				
Rated voltage	220 – 230 – 240V 1 f		220 –230–240V 1 f or 380-400-415Vac 3f + N	
Minimum voltage range	170V of load 100%, 140V of load 50%			
Rated frequency	50 / 60 Hz			
Accept frequency	± 5%			
Power factor	> 0,95			
Input phases	1			
Bypass				
Voltage range	180 – 264 Vac (selectable in Economy a Smart Active mode)			
Frequency range	Selected frequency ± 5% Hz (user configurable)			
Batteries				
Numbers of batteries	20			
Blocks	12V/9Ah			
Recharge time	6 – 8 h			
Output				
Power	5000 VA 4000 W	6000 VA 4200 W	6500 VA 5200 W	8000 VA 6400 W
Static tolerance	1,5%			
Dynamic tolerance	≤ 5% in time 20 ms			
Profile wave	Sinewave			
Voltage distortion Linear load	< 3%			
Voltage distortion No linear load	< 6%			
Frequency	50 / 60 Hz (auto sensing)			
Crest factor	> 3 : 1			
Outputs sockets	IN/OUT outputs connectors + 2 x IEC-320 (10A)			
Load capacity				
100% = load < 150%	4"			
100% < load < 125%	1"			
load > 150%	0,5"			
System				
Weight (kg)	89	90	91	94
Dimension (wdh) (mm)	282 x 785 x 615			
Technologies	On-line dual converting			
Effective	98% (Smart mode)			
Operating temperature	0°C / +40 °C, optimal +15°C / +25°C			
Relative humidity	< 95% non condensing			
Protection	Over load – short circuit – over voltage –low voltage– temperature – low batteries			
Compliance a EMC	EN62040-1, EMC EN 62040-2 and Directives 2006/95/EC; 2004/108/EC, EN 62040-3			
Communication	USB + RS232 + remote contacts + communication interface slot			
Color	Dark grey (RAL 7016)			
Noise	< 45 dBA 1m			
Back-up time by full load (min)	15	13	10	8

Technical data

Model		XRP 10000
Input		
Input		XRP 10000
Rated voltage	220 –230–240V 1 f or 380-400-415Vac 3f + N	
Minimum voltage range	170V of load 100%, 140V of load 50%	
Rated frequency	50 / 60 Hz	
Accept frequency	± 5%	
Power factor	> 0,95	
Input phases	1	
By-pass		
By-pass		XRP 10000
Voltage range	180 – 264 Vac (selectable in Economy a Smart Active mode)	
Frequency range	Selected frequency ± 5% (user configurable)	
Batteries		
Batteries		XRP 10000
Numbers of batteries	20	
Blocks	12V/9Ah	
Recharge time	6 – 8 h	
Output		
Output		XRP 10000
Power	10000 VA 8000 W	
Static tolerance	± 1,5%	
Dynamic tolerance	≤ 5% in time 20 ms	
Profile wave	Sinewave	
Voltage distortion Linear load	220-230-240 V (selection)	
Voltage distortion No linear load	< 3%	
Frequency	< 6%	
Crest factor	50 / 60 Hz (selection or automatic)	
Outputs sockets	> 3 : 1	
Static tolerance	IN/OUT outputs connectors + 2 x IEC-320 (10A)	
Load capacity		
Load capacity		XRP 10000
100% = load < 150%	4"	
100% < load < 125%	1"	
load > 150%	0,5"	
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Compliance a EMC	EN62040-1, EMC EN 62040-2 and Directives 2006/95/EC; 2004/108/EC, EN 62040-3	
Communication	USB + RS232 + remote contacts + communication interface slot	
Color	Dark gray (RAL 7016)	
Noise	< 45 dBA 1m	
Back-up time by full load (min)	6	

Details

