

SENTINEL XR PLUS 5-10kVA

Uninterruptible Power Supply

Absolute protection

Sentinel XR Plus is the ideal solution for powering vital mission critical, sensitive loads such as electro-medical security applications in order to guarantee maximum reliability and availability. 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, stabilised and regulated sinewave 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.

High UPS reliability

- Full microprocessor control. - 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 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). - 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

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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.

Applications

Local Area Networks (LAN), Servers, Data centers, Industrial PLCs, Cash registers, Emergency devices (lights/alarms), Electro-medical devices.

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INPUT	XRMP 5000	XRMP 6000	XRTP 6500	XRTP 8000
Voltage	220 - 230 - 240 V 1Ph		220 - 230 - 240 V 1Ph or 380-400-415 Vac 3Ph+N	
Voltage range without battery contribution	170 V @ 100% load (140 V @ 50% load)			
Input frequency	50/60 Hz			
Accepted frequency	±5%			
Power factor	> 0.95			
Input phases	1		1 or 3 (selectable)	
BY PASS	XRMP 5000	XRMP 6000	XRTP 6500	XRTP 8000
Voltage tolerance	180 - 264 V (selectable in Economy Mode and Smart Mode)			
Frequency tolerance	Selected frequency ±5%			
BATTERIES	XRMP 5000	XRMP 6000	XRTP 6500	XRTP 8000
Battery blocks	12V/7Ah			12V/9Ah
Batteries number	20			
Recharge time	6-8 h			
OUTPUT	XRMP 5000	XRMP 6000	XRTP 6500	XRTP 8000
Rated power	5000 VA	6000 VA	6500 VA	8000 VA
Active power	4000 W	4800 W	5200 W	6400 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 or auto sensing			
Crest factor (I _{peak} /I _{rms})	>3 : 1			
Dynamic variation	<5% in 20ms			
Static variation	±1,5%			
Output sockets	IN/OUT terminal board + no. 2 IEC-320 (10A)			
SYSTEM	XRMP 5000	XRMP 6000	XRTP 6500	XRTP 8000
Noise	< 45 dBA at 1 m			
Operating temperature	0°C / +40°C			
Relative humidity	<95% non condensing			
Protections	Overload - short-circuit - overvoltage - undervoltage - temperature - low battery			
Communication slot	RS232 + USB + remote contacts + communication interface slot			
Colour	Dark grey RAL 7016			
Efficiency	up to 98% (Smart Mode)			
Standards	Safety: EN 62040-1 EMC EN 62040-2 and Directive 2006/95/EC;2004/108/EC EN 62040-3			
Technology	On-line double conversion			
Weight (kg)	89 Kg	90 Kg	91 Kg	94 Kg
Dimensions (WxDxH) mm	282x785x615 mm			
OVERLOAD	XRMP 5000	XRMP 6000	XRTP 6500	XRTP 8000
100% = Load < 150%	4 sec.			

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Load > 150%	0.5 sec.			
100% < Load < 125%	1 min.			
DATA	XRMP 5000	XRMP 6000	XRTP 6500	XRTP 8000
Installation	Tower			
Configuration	Single Unit			
OPTIONS	XRMP 5000	XRMP 6000	XRTP 6500	XRTP 8000
Battery cabinets for longer runtimes	Yes			
Empty battery cabinets for longer runtimes	Yes			
Isolation transformer module (WxDxH)	400x265x500			-
Communication software 'professional' versio	Yes			
OPTIONS	XRMP 5000	XRMP 6000	XRTP 6500	XRTP 8000
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
MultiCom 362	X	X	X	X
MultiCom 372	X	X	X	X
MultiCom 382	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
MultiCom 401	X	X	X	X

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Input frequency	50/60 Hz	
Accepted frequency	±5%	
Power factor	> 0.95	
Input phases	1 or 3 (selectable)	
BY PASS		XRTP 10000
Voltage tolerance	180 - 264 V (selectable in Economy Mode and Smart Mode)	
Frequency tolerance	Selected frequency ±5%	
BATTERIES		XRTP 10000
Battery blocks	12V/9Ah	
Batteries number	20	
Recharge time	6-8 h	
OUTPUT		XRTP 10000
Rated power	10000 VA	
Active power	8000 W	
Phases number	1	
Waveform	Sinewave	
Rated voltage	220-230-240 V selectable	
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	XRTP 10000
Installation	Tower
Configuration	Single Unit
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	XRTP 10000
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Empty battery cabinets for longer runtimes	Yes
Isolation transformer module (WxDxH)	-
Communication software 'professional' version	Yes
OPTIONS	
	XRTP 10000
MultiCom 351	X
MultiCom 352	X
MultiCom 301	X
MultiCom 302	X
NetMan 101 Plus	X
NetMan 102 Plus	X
MultiCom 362	X
MultiCom 372	X
MultiCom 382	X
Multi I/O	X
IRMS Multi-Switch	X
AS/400 interface kit	X
MultiCom 401	X