

Uninterruptible Power Supply

Quality power supply

ON-LINE double conversion VFI technology guarantees a filtered, stabilized and reliable voltage that is free from all mains interference (overvoltages, frequency variations, voltage drops).

Low consumption

As well as the on-line operating mode, Sentry Multistandard can operate in:

operate in:

operate in:

- Economy Mode: the UPS uses Line Interactive technology: the load is powered from the mains; the energy consumption is reduced with a subsequent improvement in efficiency (98%).
- Smart Active Mode: the UPS automatically selects On Line or Line Interactive operating mode according to the quality of the mains supply, by monitoring the number, frequency and type of disturbances at the mains power input.
- Stand-by-Off (back-up unit): with the mains available the UPS is normally not powered and consequently the power consumption is almost zero. Only when the mains fails or falls outside a preset range, does the inverter take over in 200 ms using power from the batteries. Thisoperating mode is suitable for Emergency

Escape Lighting (CPSS - Central Power Supply System) as per standard EN 50171.

These modes can be programmed to suit the requirements of the user and the load to be powered.

Expandability

The units can be connected in parallel up to 8 units to increase power availability or redundancy. The single module or the system can be expanded at any time following the power demand without any influence on the initial investment. Thanks to the peculiarity of the "Hot System Expansion" feature, the additional unit can be connected in parallel while the other units are on-line and supplying regular power to the load. The new UPS is on-line and will receive the updated information automatically.

High reliability

The digital control of the appliance considerably improves its reliability, since a reduction in electronic components lowers the likelihood of breakdowns. The parallel connection of the UPS up to 8 units exponentially increases the reliability of the system. The parallel connection system has 2 levels of redundancy: in the event





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both redundant cables are lost only the relevant module will be disconnected from the output bus bar, while the other modules supply power to the load.

Operating flexibility

Sentry Multistandard is a UPS with On- Line double conversion technology that can also operate in Line Interactive mode (Economy Mode). It can handle the two architectures autonomously through the Smart Active function. The Stand-By-Off function can be used to transform the UPS into a back-up unit to supply power for emergency lighting. Sentry Multistandard can also be used as a Frequency Converter, 50/60Hz or vice versa.

Maximum battery care

Temperature is the greatest threat to batteries; for this reason, Sentry Multistandard monitors the temperature of the battery and thereby controls the battery charging voltage. An automatic battery test periodically checks the efficiency of the batteries. The batteries are not used during micro-interruptions (40 ms), since the required energy is drawn from a group of capacitors (BATTERY SAVING). This system extends the life of the batteries. The Sentry Multistandard range also includes deep discharge protection feature.

Maximum safety for personnel

The back feed protection device prevents any voltage back feed in the upstream distribution board, thus ensuring the safety of the maintenance personnel.

Advanced communication

The unit comes with Aros Watch&Save 3000 software as a standard feature. The software displays the most important information such as the input and output voltage, the load applied, the remaining back-up time, etc., in the form of bar graphs. It is able to provide information even in the event of a failure, to support the fault diagnostics. Watch&Save 3000 software can be used to program the automatic shutdown of all open systems in the event of a prolonged black out.
 The UPS also contains the

- following hardware interfaces:
 RS232 serial port
- Dry contacts
- EPO (Emergency Power Off) contact for UPS shutdown using the remote emergency button.



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Mimic panel

The mimic panel allows easy and intuitive operation of the UPS. It gives access to the most important parameters: status and alarms, control commands, input, output, battery measurements (power, current, voltage, frequency and temperature) and settings. The Sentry Multistandard diagnostics system includes up to 128 alarms or messages allowing precise and detailed identification of any event.

Low Input Harmonic Distortion

The Power Factor Correction (PFC), standard on all models, guarantees the input power factor level to 0,95 for any load percentages so that it is ideal in conjunction with Motor Generator or in installations with other sensitive loads.

Sentry Multistandard is also available with built-in Active Filter designed to reduce the level of THDi to less than 4% and to increase the input power factor up to 0,99.
br>

Other benefits

Advanced technologies: Active
 Filter is based on the IGBT's

Technologies controlled by the Digital Signal Processor (DSP). DSP instantly monitors and controls the input current absorbed by the UPS in order to eliminate the unlike harmonics and maintain the THDi less than 4 %.

%.

br>

- Maximum efficiency: thanks to the Active Filter, Multistandard has low input harmonics even at low loads connected at the output.
- Compact size: no addition footprint is required because the Active Filter is fitted inside the base Multistandard unit.
- Reduction of the neutral current: less harmonics at the Multistandard input reduces the neutral cable size and consequently the installation costs.
- Maximum reliability: thanks to this design solution any failure of the optional Active Filter has no influence on the power supplied to the load; the only consequence is the increase of current harmonics level rejected to the mains.

 MAXIMUM RELIABILTY FOR THE LOAD.



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Applications

Servers, Local Area Network (LAN), Data centers, telecommunications, industrial equipment, electro-medical equipment, emergency lighting applications.



Uninterruptible Power Supply

INPUT	SM 10	SM 15	SM 20		
Current distorsion	<7% single-pl	hase input, <4% three-phase input	with Active Filter		
Power factor		0.95			
Voltage	230 V sing	230 V single-phase or 400 V three-phase + N (selectable)			
Frequency		45÷65 Hz			
Voltage tolerance		±20%			
ОИТРИТ	SM 10	SM 15	SM 20		
Short-circuit current		300% for 0,5"			
Crest factor (Ipeak/Irms)		3:1			
Waveform		Sinewave			
Frequency		50 / 60 Hz selectable			
Phases number		1			
Rated power	10 KVA	15 KVA	20 KVA		
Active power	8 kW	10,5 kW	12 kW		
Overload	1	110% for 5h, 125% for 10', 150% fo	or 1'		
Frequency stability	±0,05% in battery op	peration, ±1% in synchronism with	mains (±5% selectable)		
Dynamic stability		±5%			
Rated voltage		220-230-240 V selectable			
BY PASS	SM 10	SM 15	SM 20		
Rated frequency		50 / 60 Hz			
Phases number		1			
Rated voltage		230 V			
Frequency tolerance		±2% (selectable up to ±6%)			
Voltage tolerance		±15% selectable from ±5% to ±25%)			
By-pass		Static and manual for maintenance			
Transfer time		0 ms			
BATTERIES	SM 10	SM 15	SM 20		
Туре		Maintenance-free sealed lead ac	id		
Recharge time		6 h			
Batteries number	32	32 48			
Battery blocks		12V			
SYSTEM	SM 10	SM 15	SM 20		
Operating altitude		1000 m a.s.l.			
Colour		Dark grey RAL 7024			
Remote controls		EPO and bypass			
Communication		Double RS232/C			
Protection degree		IP20			
Communication slot	2 RS232/C, s	lot for Netman 102 or MultiCom 30	02, 352, Profibus		
AC/AC efficiency		93%			



Uninterruptible Power Supply

Noise	50÷56 dBA at 1 m.			
Remote signals	Volt free contacts			
Operating temperature	0°C ÷ +40°C			
Relative humidity	95% non condensing			
Standards	Safety: EN 62040-1-1, Directives 73/23EC and 93/68/EC; EMC: IEC 62040-2; EN 50091-2 lev. A, Directives 2004/108/EC and 89/336/EC; EN 62040-3			
OPTIONS	SM 10	SM 15	SM 20	
Battery cabinets for longer runtimes		Yes		
Empty battery cabinets for longer runtimes	Yes			
Parallel kit	Yes			
Isolation transformer module (WxDxH)	555x720x1200mm/140kg	555x720x1200mm/160kg	555x720x1200mm/188kg	
LCD-based remote control panel	Yes			
LED-based remote control panel	Yes			
Communication software "professional" version	Yes			
DATA	SM 10	SM 15	SM 20	
Weight (kg)	From 112 to 218	From 122 to 330	From 123 to 345	
Dimensions (WxDxH) mm	450x750x1200			
Back up time at full load (min)	From 0 to 50	From 0 to 20	From 0 to 15	
Input phases	3/1			
Output phases	1			
Technology	On-line double conversion			
Installation	Tower			
Configuration		Parallel Unit		

OPZIONI SM 15

MultiCom 351

MultiCom 352

MultiCom 301

MultiCom 302

NetMan 101 Plus

NetMan 102 Plus

Multi I/O

IRMS Multi-Switch

AS/400 interface kit

UPS remote contacts expander

Profibus DP Gateway

OPZIONI SM 10

MultiCom 351

MultiCom 352

MultiCom 301



Uninterruptible Power Supply

MultiCom 302

NetMan 101 Plus

NetMan 102 Plus

Multi I/O

IRMS Multi-Switch

AS/400 interface kit

UPS remote contacts expander

Profibus DP Gateway

OPZIONI SM 20

MultiCom 351

MultiCom 352

MultiCom 301

MultiCom 302

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AS/400 interface kit

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- Smart Active Mode: the UPS automatically selects On Line or Line Interactive operating mode according to the quality of the mains supply, by monitoring the number, frequency and type of disturbances at the mains power input.
- Stand-by-Off (back-up unit) with the mains available the UPS is normally not powered and consequently the power consumption is almost zero. Only when the mains fails or falls outside a preset range, does the inverter take over in 200 ms using power from the batteries. Thisoperating mode is suitable for Emergency

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Low Input Harmonic Distortion

The Power Factor Correction (PFC), standard on all models, guarantees the input power factor level to 0,95 for any load percentages so that it is ideal in conjunction with Motor Generator or in installations with other sensitive loads. Sentry Multistandard is also available with built-in Active Filter designed to reduce the level of THDi to less than 4% and to increase the input power factor up to 0,99.

Other benefits

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 Advanced technologies: Active Filter is based on the IGBT's Technologies controlled by the Digital Signal Processor (DSP). DSP instantly monitors and controls the input current absorbed by the UPS in order to eliminate the unlike harmonics and maintain the THDi less than 4 %.
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- Maximum efficiency: thanks to the Active Filter, Multistandard has low input harmonics even at low loads connected at the output.
- Compact size: no addition footprint is required because the Active Filter is fitted inside the base Multistandard unit.
- Reduction of the neutral current: less harmonics at the Multistandard input reduces the neutral cable size and consequently the installation costs.
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Applications

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INPUT	ST 10	ST 15	ST 20	ST 30	
Current distorsion		<4% with Active Filter			
Power factor		0.99 with Active Filter			
Voltage	400 V+ N three-phase				
Frequency		45÷65 Hz			
Voltage tolerance		±20%			
ОИТРИТ	ST 10	ST 15	ST 20	ST 30	
Short-circuit current		300%	for 0,5"		
Crest factor (Ipeak/Irms)		3	B: 1		
Waveform		Sin	ewave		
Frequency		50 / 60 H	z selectable		
Phases number		3	+ N		
Rated power	10 KVA	15 KVA	20 KVA	30 KVA	
Active power	8 kW	12 kW	16 kW	24 kW	
Overload		110% for 5h, 125%	% for 10', 150% for 1'	•	
Frequency stability	±0,05% in ba	ttery operation, ±1% in s	ynchronism with mains (±	5% selectable)	
Dynamic stability		±	:5%		
Rated voltage		380-400-415	5 V (selectable)		
BY PASS	ST 10	ST 15	ST 20	ST 30	
Rated frequency		50 / 60 Hz			
Phases number		3	+ N		
Rated voltage		400	V + N		
Frequency tolerance		±2% (selecta	able up to ±5%)		
Voltage tolerance		±15% (selectable	from ±5% to ±25%)		
By-pass		Static and manu	al for maintenance		
Transfer time		0	ms		
BATTERIES	ST 10	ST 15	ST 20	ST 30	
Туре		Maintenance-free sealed lead acid			
Recharge time		(6 h		
Batteries number	32	32 48			
Battery blocks	12V				
SYSTEM	ST 10	ST 15	ST 20	ST 30	
Operating altitude		1000 m a.s.l.			
Colour		Dark grey RAL 7024			
Remote controls		EPO and bypass			
Communication		Double RS232/C			
Protection degree		IP20			
Communication slot	2 RS2	32/C, slot for Netman 10	02 or MultiCom 302, 352,	Profibus	
AC/AC efficiency		g	92%		



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Noise	50÷56 dBA at 1 m.			
Remote signals	Volt free contacts			
Operating temperature	0°C ÷ +40°C			
Relative humidity		95% non 0	condensing	
Standards	Safety: EN 62040-1-1, Directives 73/23EC and 93/68/EC; EMC: IEC 62040-2; EN 50091-2 lev. A, Directives 2004/108/EC and 89/336/EC; EN 62040-3			
OPTIONS	ST 10	ST 15	ST 20	ST 30
Battery cabinets for longer runtimes		Υ	es	
Empty battery cabinets for longer runtimes	Yes			
Parallel kit	Yes			
Isolation transformer module (WxDxH)	555x720x1200mm/145 kg	555x720x1200mm/165 kg	555x720x1200mm/190 kg	555x720x1200mm/215 kg
LCD-based remote control panel	Yes			
LED-based remote control panel	Yes			
Communication software "professional" version	Yes			
DATA	ST 10	ST 15	ST 20	ST 30
Weight (kg)	From 114 to 406	From 122 to 335	From 124 to 350	From 144 to 370
Dimensions (WxDxH) mm	450x750x1200			
Back up time at full load (min)	From 0 to 50	From 0 to 20	From 0 to 15	From 0 to 8
Input phases	3			
Output phases	3			
Technology	On-line double conversion			
Installation	Tower			
Configuration		Parall	el Unit	

OPZIONI ST 10

MultiCom 351

MultiCom 352

MultiCom 301

MultiCom 302

NetMan 101 Plus

NetMan 102 Plus

Multi I/O

IRMS Multi-Switch

AS/400 interface kit

UPS remote contacts expander

Profibus DP Gateway

OPZIONI ST 15

MultiCom 351

MultiCom 352

MultiCom 301



Uninterruptible Power Supply

MultiCom 302

NetMan 101 Plus

NetMan 102 Plus

Multi I/O

IRMS Multi-Switch

AS/400 interface kit

UPS remote contacts expander

Profibus DP Gateway

OPZIONI ST 20

MultiCom 351

MultiCom 352

MultiCom 301

MultiCom 302

NetMan 101 Plus

NetMan 102 Plus

Multi I/O

IRMS Multi-Switch

AS/400 interface kit

UPS remote contacts expander

Profibus DP Gateway

OPZIONI ST 30

MultiCom 351

MultiCom 352

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MultiCom 302

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INPUT	ST 40	ST 60	ST 80	
Current distorsion		<4% with Active Filter		
Power factor	0.99 with Active Filter			
Voltage	400 V three-phase + N			
Frequency	45÷65 Hz			
Voltage tolerance		±20%		
OUTPUT	ST 40	ST 60	ST 80	
Crest factor (Ipeak/Irms)		3:1		
Waveform		Sinewave		
Frequency		50 / 60 Hz selectable		
Phases number		3 + N		
Rated power	40 KVA	60 KVA	80 KVA	
Active power	32 kW	48 kW	64 kW	
Overload	1	10% for 5h, 125% for 10', 150% for	or 1'	
Dynamic stability		±5%		
Static stability		±1%		
Rated voltage		380-400-415 V (selectable)		
BY PASS	ST 40	ST 60	ST 80	
Rated frequency		50 / 60 Hz		
Phases number	3 + N	3 + N	3 + N	
Rated voltage		400 V + N		
Frequency tolerance		±2% (selectable up to ±5%)		
Voltage tolerance	±	:15% (selectable from ±5% to ±25	(%)	
By-pass	Static and manual for maintenance			
Transfer time		0 ms		
BATTERIES	ST 40	ST 60	ST 80	
Туре		Maintenance-free sealed lead-acid		
Recharge time		4 - 8 h		
Batteries number		48		
Battery blocks		12V		
SYSTEM	ST 40	ST 60	ST 80	
Colour	Dark grey RAL 7024			
Remote controls	EPO and bypass			
Communication	Double RS232/C + slot for SNMP adapter			
Protection degree	IP20			
AC/AC efficiency	92% in On-Line mode 98% in Economy Mode/Smart Active Mode/Emergency mode			
Noise	50÷56 dBA a 1 m.			
Remote signals		Volt free contacts		



Uninterruptible Power Supply

Operating temperature	0°C / + 40°C			
Relative humidity	95% non condensing			
Standards	Safety: EN 62040-1-1, Directives 73/23EC and 93/68/EC; EMC: IEC 62040-2; EN 50091-2 lev. A, Directives 2004/108/EC and 89/336/EC; EN 62040-3			
OPTIONS	ST 40	ST 60	ST 80	
Battery cabinets for longer runtimes		Yes		
Empty battery cabinets for longer runtimes		Yes		
Parallel kit		Yes		
Optional filters	Yes			
Isolation transformer module (WxDxH)	555x720x1200mm /260kg 640x740x1400mm / 380kg 640x740x1400mm / 43			
LCD-based remote control panel	Yes			
LED-based remote control panel	Yes			
Communication software "professional" version	Yes			
DATA	ST 40	ST 60	ST 80	
Weight (kg)	180	200	220	
Dimensions (WxDxH) mm	500x740x1400			
Back up time at full load (min)	0			
Input phases	3			
Output phases	3			
Technology	On-line double conversion			
	Tower			
Installation		rower		

OPZIONI ST 40

Antiharmonic filter

MultiCom 351

MultiCom 352

MultiCom 301

MultiCom 302

NetMan 101 Plus

NetMan 102 Plus

Multi I/O

IRMS Multi-Switch

AS/400 interface kit

UPS remote contacts expander

Profibus DP Gateway

OPZIONI ST 60

Antiharmonic filter

MultiCom 351

MultiCom 352



Uninterruptible Power Supply

MultiCom 301

MultiCom 302

NetMan 101 Plus

NetMan 102 Plus

Multi I/O

IRMS Multi-Switch

AS/400 interface kit

UPS remote contacts expander

Profibus DP Gateway

OPZIONI ST 80

Antiharmonic filter

MultiCom 351

MultiCom 352

MultiCom 301

MultiCom 302

NetMan 101 Plus

NetMan 102 Plus

Multi I/O

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Profibus DP Gateway