





Quality Power Supply

SENTRY MPS is an on-line double conversion UPS (VFI SS 111 in accordance with IEC EN 620406-3) with a transformer isolated inverter. With a compact footprint and high power quality output, SENTRY MPS is designed to protect "mission critical" applications including data processing,

telecommunications, industrial processes, security and electro-medical systems.

SENTRY MPS is available from 100 to 800kVA in two or four versions each with different harmonic distortion and power factor for better matching the market requirements:

- MPS (100 to 200kVA only),
- MPS LH (100 to 200kVA only),
- MPS Plus,
- MPS Sinus.

Battery Care System: Maximum Lifetime Potential

Traditionally, when a mains supply is present the UPS charges its batteries. Battery power is used for the inverter should the input supply fail. Efficient battery management and care is therefore essential to the overall performance of the UPS in an emergency. The SENTRY MPS Battery Care System consists of a range of features designed to provide optimum performance and enhanced operating life:

- Dual level charging regime to optimise recharge currents and lower recharge times;
- Temperature compensation and deep discharge protection to reduce overall battery aging;
- Charge blocking system to reduce electrolyte consumption and lengthen the life of VRLA batteries;
- Predictive battery testing to spot potential battery deterioration and failure.

SENTRY MPS is also compatible with different battery technologies: openvase lead acid and AGM and Gel VRLA, NiCd.

Minimum Impact on Supplies – Easy Source

SENTRY MPS technology removes the problems of over sizing downstream power sources, whilst improving load power factors and current harmonics.

The UPS features the latest input current absorption techniques including progressive rectifier start-up and the option to reduce currents. battery charging These features make SENTRY MPS one of the most compatible and generator environmentally friendly UPS available.



Illustrative photo

Flexibility

SENTRY MPS is suitable for a wide range of applications including IT and the most demanding industrial environments suitable for power capacitive loads such as blade servers, without any reduction of the active power, 0.8 lagging to 0.9 from leading. With a broad of accessories and options. complex configurations and system architectures can be guarantee achieved to maximum power availability and the option to add new UPS without interruption to existing users.

Using the UPS Group Synchroniser (USG) and Parallel Systems Joiner (PSJ) sophisticated inter group parallel and redundant



systems can be achieved to provide the highest possible levels of resilience and availability.

Advanced Communication

- Compatible with TeleNetGuard for remote maintenance
- Advanced, multi-platform communication for all systems operating and network environments: Watch&Save 3000 monitoring and shut-down software included, with SNMP agent, for Windows 9x, ME, NT 4.0, 2000, XP, Vista and 2003 server; Mac OS X, Linux, Novell and popular Unix most operating systems
- The UPS is supplied with a cable for direct connection to the PC (Plug and Play)
- RS232 double serial port

Sentry MPS

- Installation slot for an Emergency Power Off (EPO) interface to allow the UPS to be switched off remotely in an emergency.
- Remote mimic panel (LED or LCD)

Aplications

- Servers
- Local Area Network (LAN)
- Data centers
- Telecommunications
- Industrial equipment
- Electro-medical equipment

Easy Installation

SENTRY MPS has a small footprint (only 0,64 sqm for 200kVA and 1,63 sqm for 400kVA). Front access to internal assemblies and top panel ventilation make space allocation within confined data processing or plant rooms easy.



SENTRY MPS can be placed against a wall as there is no requirement for rear or side influencing the initial investment.

Options

- Input isolation transformer
- UPS Group Synchronizer (UGS)
- Parallel System Joiner (PSJ)
- Interface for generator
- LED remote status panel
- LCD-based remote control panel
- Graphic Display Remote panel
- Empty battery cabinets for prolonged runtime







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 any time to suit power requirements without influencing 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 be set up automatically.

Dual Bus System

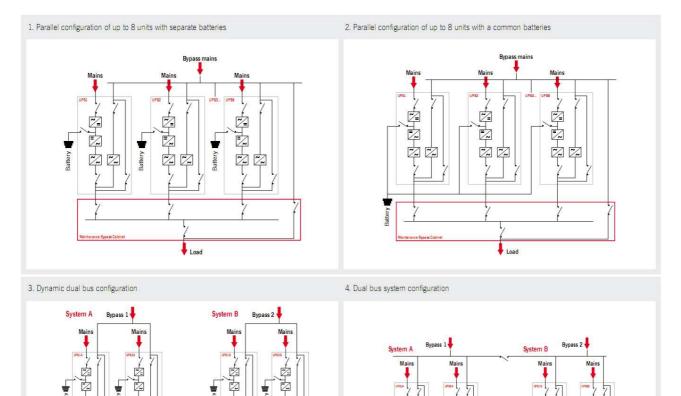
The Dual Bus System powers the priority loads from two independent sources.

This configuration increases the redundancy and availability level of a multimodule configuration. Each bus may consist of a single module or up to 8 modules in parallel, kept in synchro by the UGS (UPS Group Synchroniser)

Dynamic Dual Bus System

Two independent systems set in Dual Bus Configuration can be merged together at any time for system expansion or maintenance thanks to the PSJ (Parallel System Joiner) option.

This provides a lot of flexibility in your installation in case of maintenance or when it is necessary to change the redundancy level of both systems.



UGS

Load 3

Load 4

Load 2

Load 1







Technical Data

Three-phase input Three-phase output

Models	MPS 100	MPS 120	MPS 160	MPS 200	
Pover (kVA)	100	120	160	200	
Input	MPS 100	MPS 120	MPS 160	MPS 200	
Rated voltage		380 - 400 - 415	/ac 3-phase + N		
Voltage tolerance	400V ± 20%				
Frequency	45 ÷ 65 Hz				
Power factor	> 0,95 in the Sinus version				
Current harmonic distortion	< 3% in the Sinus version				
Soft start	0 ÷ 100% in 30" (configurable)				
Frequency tolerance	$\pm 2\%$ (selectable from $\pm 1\%$ to $\pm 5\%$)				
Standard features		Back Feed protection;	separable bypass line		
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Batteries	MPS 100	MPS 120	MPS 160	MPS 200	
Туре	Le	ead, open vase acid and	VRLA AGM / GÉL; Ni	Cd	
AC ripple current	0				
Temperature compensation		-0,5 V / C			
Output	MPS 100	MPS 120	MPS 160	MPS 200	
Rated power (kVA)	100	120	160	200	
Active power with load from	00	06	100	160	
0.9 cap. To 0.8 ind. (kW)	80	96	128	160	
Number of phases	3 + N				
Rated voltage	380 – 400 – 415 Vac three-phase + N (selectable)				
Static stability	±1%				
Dynamic stability	±5% in 10 ms				
Voltage distortion with		< 1	%		
linear load	≤ 1%				
Voltage distortion with non-	≤ 3%				
linear load					
Frequency	50 / 60 Hz (configurable)				
Waveform	Sinusoidal				
Crest factor (Ipeak/Ipms)	3:1				
Overload	110% / 125% / 150% for 60 min / 10 min / 1 min				
System	MPS 100	MPS 120	MPS 160	MPS 200	
System Remote signalling	WIT 5-100			WIF 3 200	
Remote controls	Dry contact (configurable)				
Communication	EPO and bypass 2 x RS232/C + remote contacts + 2 x communication interface slots				
Efficiency	Up to 94%				
Dimensions (wdh) (mm)	800 x 800 x 1900 (base version)				
Weight (kg)	640	650	770	810	
Noise level	040			010	
Operating temperature	63 ÷ 68 dBA / 1m 0℃ ÷ +40 ℃, optimal +15℃ / +25℃				
Relative humidity	< 95% non condensing				
Protection	IP20				
Color	Light grey (RAL 7035)				
	Directives 73/23/EC, 93/68/EC, 89/336/EC				
Compliance	Safety: IEC EN 62040-1; EMC EN 62040-2; Performance: IEC EN 62040-3				
Classification as per IEC					
EN 62040-3	(`	Voltage Frequency Indep	pendent) VFI – SS – 1	11	







Technical Data

Three-phase input Three-phase output

Compliance

Classification as per IEC EN 62040-3

Models	MPS 250	MPS 300	MPS 400	
Power (kVA)	250	300	400	
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Input	MPS 250	MPS 300	MPS 400	
Rated voltage	380 – 400 – 415 Vac 3-phase + N			
Voltage tolerance	400V ± 20%			
Frequency	45 ÷ 65 Hz			
Power factor	> 0,95 in the Sinus version			
Current harmonic distortion	< 3% in the Sinus version			
Soft start	0 ÷ 100% in 30" (configurable)			
Frequency tolerance	$\pm 2\%$ (selectable from $\pm 1\%$ to $\pm 5\%$)			
Standard features	Back Feed protection; separable bypass line			
Batteries	MPS 250	MPS 300	MPS 400	
Туре	Lead, op	en vase acid and VRLA AGM	/ GÉL; NiCd	
AC ripple current		0		
Temperature compensation	-0,5 V / C			
Output	MPS 250	MPS 300	MPS 400	
Rated power (kVA)	250	300	400	
Active power with load from 0.9 cap. To	200	240	320	
0.8 ind. (kW)	200		520	
Number of phases		3 + N		
Rated voltage	380 – 400 – 415 Vac + N (configurable)			
Static stability	±1%			
Dynamic stability	±5% 10 ms			
Voltage distortion with linear load	≤ 1%			
Voltage distortion with non-linear load	≤ 3%			
Frequency	50 / 60 Hz (configurable)			
Waveform		Sinusoidal		
Crest factor (Ipeak/Ipms)	3:1			
Overload	110% /	125% / 150% for 60 min / 10	min / 1 min	
System	MPS 250	MPS 300	MPS 400	
Remote signalling		Dry contact (configurable)		
Remote controls	EPO and bypass			
	2 x RS232/C + remote contacts + 2 x communication interface slots			
Efficiency	Up to 94%			
Dimensions (wdh) (mm)		1630 x 1900	1000 x 1630 x 1900	
Weight (kg)	2200	2200	3600	
Noise level	70 dBA / 1m			
Operating temperature	0℃ ÷ +40 °C, optimal +15℃ / +25℃			
Relative humidity	< 95% non condensing			
Protection	IP20			
Color	Light grey (RAL 7035)			
Compliance	Directives 73/23/EC, 93/68/EC, 89/336/EC			

Safety: IEC EN 62040-1; EMC EN 62040-2; Performance: IEC EN 62040-3

(Voltage Frequency Independent) VFI - SS - 111







Technical Data

Three-phase input Three-phase output

Models	MPS 500	MPS 600	MPS 800	
Pover (kVA)	500	600	800	
Input	MPS 500	MPS 600	MPS 800	
Rated voltage	380 – 400 – 415 Vac 3-phase + N			
Voltage tolerance	400V ± 20%			
Frequency	45 ÷ 65 Hz			
Power factor	> 0,95 in the Sinus version			
Current harmonic distortion	< 3% in the Sinus version			
Soft start	0 ÷ 100% in 30" (configurable)			
Frequency tolerance	$\pm 2\%$ (selectable from $\pm 1\%$ to $\pm 5\%$)			
Standard features	Back Feed protection; separable bypass line			
Batteries	MPS 500	MPS 600	MPS 800	
Туре	Lead, open	vase acid and VRLA AGM	/ GÉL; NiCd	
AC ripple current	< 1%			
Temperature compensation	-0,5 V / C			
Output	MPS 500	MPS 600	MPS 800	
Rated power (kVA)	500	600	800	
Active power with load from 0.9 cap. To 0.8 ind. (kW)	400	480	640	
Number of phases	3 + N			
Rated voltage	380 – 400 – 415 Vac three-phase + N (selectable)			
Static stability		±1%		
Dynamic stability	±5% 10 ms			
Voltage distortion with linear load		≤ 1%		
Voltage distortion with non-linear load	≤ 3%			
Frequency		50 / 60 Hz (configurable)		
Waveform		Sinusoidal		
Crest factor (lpeak/lpms)	3:1			
Overload	110% / 12	25% / 150% for 60 min / 10	min / 1 min	
System	MPS 500	MPS 600	MPS 800	
Remote signalling	Dry contact (configurable)			
Remote controls	EPO and bypass			
Communication	2 x RS232/C + remote contacts + 2 x communication interface slots			
Efficiency	Up to 94%			
Dimensions (wdh) (mm)	3200 x 980 x 1900		4400 x 1000 x 1900	
Weight (kg)	3800	4200	5450	
Noise level		78 dBA / 1m		
Operating temperature	0℃ ÷ +40 ℃, optimal +15℃ / +25℃			
Relative humidity	< 95% non condensing			
Protection	IP20			
Color	Light grey (RAL 7035)			
Compliance	Directives 73/23/EC, 93/68/EC, 89/336/EC			
Compilation	Safety: IEC EN 62040-1; EMC EN 62040-2; Performance: IEC EN 62040-3			

(Voltage Frequency Independent) VFI - SS - 111

A2B, s.r.o. reserves the right to change any specifications without prior notice.

Classification as per IEC EN 62040-3