

Sentry MPS industrial



Protection for Industrial Application

SENTRY MPS industrial is an on-line double conversion UPS (VFI SS 111 in accordance with IEC EN 62040-3) with transformers isolated inverter and rectifier. SENTRY MPS industrial has a compact foot print and high quality output to provide the ultimate power protection for industrial applications: industrial processes, petrochemical, power plant, energy etc

Industrial Environment

SENTRY MPS industrial is suitable for severe installation environments such as petrochemical manufacturing sites, where the operating conditions (levels of vibration, mechanical stress, ambient temperatures and dust ingress) require a more robust and industrialized UPS design to those installed within, for example, data centres.

High Icc

A high short-circuit current ($I_{cc} = 3 I_n$) making the UPS suitable for loads with high current peaks; during switch-on or a load step-change.

220V DC Voltage

An input transformer and isolated inverter to protect the 220Vdc bus bar (from 108 to 114 blocks), the recognised industrial standard.

Redundant Ventilation

100% redundant ventilation with 50% fan loading at nominal load and each fan monitored for breakdown or failure.

Minimum Impact on Supplies – Easy Source

SENTRY MPS industrial technology removes the problems of over sizing upstream 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 battery charging currents. These features make SENTRY MPS industrial one of the most generator compatible and environmentally friendly UPS available.

Battery Care System: Maximum 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 industrial Battery Care System consists of a range of features designed to provide optimum performance and enhanced operating life:

- Dual level charging regime to optimize 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 industrial is also compatible with different battery technologies: open-vase lead acid and AGM and Gel VRLA, NiCd.

Flexibility

With a broad range of accessories and options, complex configurations and system architectures can be achieved to guarantee maximum power availability and the option to add new UPS without interruption to existing users. Using the Aros 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.

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Advanced Communication

- Compatible with TeleNetGuard for remote maintenance
- Advanced, multi-platform communication for all operating systems 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 most popular Unix operating systems
- The UPS is supplied with a cable for direct connection to the PC (Plug and Play)
- RS232 dual serial port
- Volt-free signal contacts
- EPO (Emergency Power Off) shutdown input contact
- Input for switching to bypass by remote signal
- LCD or LED-based remote control panel
- Generator interface: enables desynchronisation of the UPS output from a generator supply which may be subject to phase and frequency variations. The interface also enables more economic use of the battery charger.



Illustrative photo



UPS



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Technical Data

Three-phase input
Single-phase output

Models	MPM 30	MPM 40	MPM 60	MPM 80
Power (kVA)	30	40	60	80
Input	MPM 30	MPM 40	MPM 60	MPM 80
Rated voltage	380 – 400 – 415 Vac 3Ph + N			
Voltage tolerance	400V ± 20%			
Frequency	45 ÷ 65 Hz			
Power factor	≥ 0,93			
Current harmonic distortion	< 5% C			
Soft start	0 ÷ 100% in 120" (configurable)			
Frequency tolerance	± 2% (selectable from ± 1% to ± 5%)			
Standard features	Back Feed protection; separable bypass line			
Batteries	MPM 30	MPM 40	MPM 60	MPM 80
Number of cells	108 ÷ 114			
Max Vdc	274 V			
Temperature compensation	-0,5 V / °C			
Output	MPM 30	MPM 40	MPM 60	MPM 80
Rated power (kVA)	30	40	60	80
Active power (kW)	24	32	48	64
Nominal voltage	230 Vac single-phase			
Static stability	±1%			
Dynamic stability	±5%			
Voltage distortion with linear load	< 1%			
Voltage distortion with non-linear load	< 3%			
Frequency	50 / 60 Hz (configurable)			
Crest factor	3 : 1			
Overload	110% / 125% / 150% for 60 min / 10 min / 1 min			
Short-circuit current	3 x nom.			
System	MPM 30	MPM 40	MPM 60	MPM 80
Remote signalling	Dry contact			
Remote controls	EPO and bypass			
Communication	2 x RS232/C + remote contacts + 2 x communication interface slots			
Efficiency	Up to 94%			
Dimensions (wdh) (mm)	800 x 800 x 1900		1600 x 800 x 1900	
Weight (kg)	850	900	1400	1500
Noise level	63 ÷ 68 dBA / 1m			
Ventilation	Redundant fans			
Operation temperature	0°C ÷ +40 °C, optimal +15°C ÷ +25°C			
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			
Classification as per IEC EN 62040-3	VFI – SS – 111			

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