UPS

Sentry MPS-HP

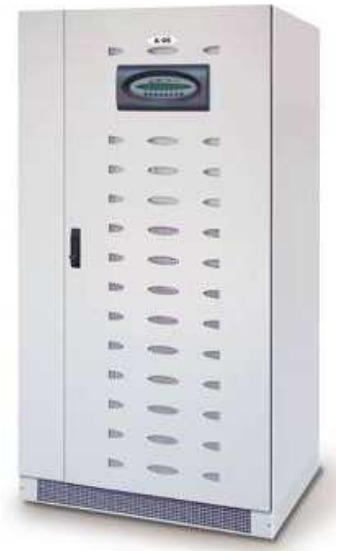
Quality Power Supply

New product line SENTRY MPS-HP involves from 100 to 250 kVA models. SENTRY MPS-HP is an on-line double conversion UPS (IGBT and DSP) that guarantee maximum protection and high-quality output for any type IT or industry load. SENTRY MPS is designed as the new configuration whit using IGBT rectifier with sinusoidal input current. SENTRY MPS-HP is designed to protect “mission critical” applications (VFI SS 111 in accordance with IEC EN 620406-3) including data processing, telecommunications, industrial processes, security and electro-medical systems.

Minimum Impact on Supplies – Easy Source

SENTRY MPS-HP is a futher evolution of the SENTRY MPS series with the added advanteges offered by an IGBT-based rectifier assembly. This feature further reduces the impact of the UPS on the local supply and simplifies installation where there is limited power capacity in the form of available electrical supply rating or generator size. SENTRY MPS-HP is classed as “Zero Impact Source” and provides:

- Low input current distortion – less than 3%
- High input power factor 0,99
- Power walk-in function that ensures progressive rectifier start up
- Delayed start up phased with the return of mains power supply, when several UPS are connected in the system
- SENTRY MPS-HP also performs the role of a high performance filter, protecting its upstream power supply sources from any harmonics and reactive power generated by the loads powered.



Illustrative photo

Battery care system

The SENTRY MPS-HP Battery Care System consists of a range of features designed to provide optimum performance and enhanced operating life

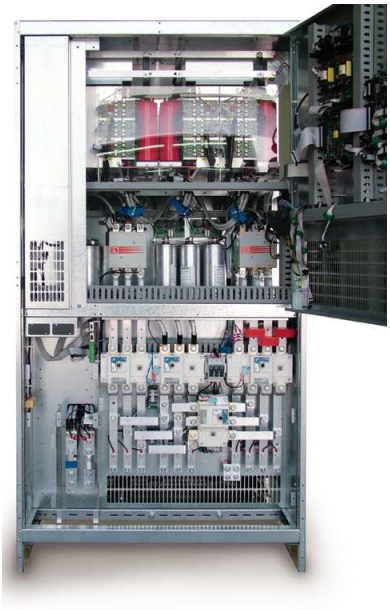
Flexibility

SENTRY MPS-HP models feature an output transformer with galvanic isolation (between the load and the battery supply)to provide greater versatility and installation options. The UPS can be supplied from two separated power source (mains power and a second emergency standby source) which can help increase the resilience of parallel system configurations.

Main characteristics

- Efficiency up to 94%
- Compact footprint: only 0,85 m^2 for the 250kVA UPS model
- Reduced weight
- Double electronic and galvanic protection of the load from the battery

The entire SENTRY MPS-HP range is suitable for a wide range of applications thanks to the flexibility of the configurations, accessories and options and choice of performance levels. Efenciency and reliable power supply for mission critical applications isguaranteed by operating in redundancy and power parallel mode with up to 8 units (N+1), and by the Dual Bus System and Dynamic Dual Bus system configurations



UPS

Sentry MPS-HP

Technical data

Three-phase input
Three-phase output

Models	MPS-HP 100	MPS-HP 120	MPS-HP 160	MPS-HP 200
Power (kVA)	100	120	160	200
Input	**MPS-HP 100**	**MPS-HP 120**	**MPS-HP 160**	**MPS-HP 200**
Rated voltage	380 – 400 – 415 Vac 3 Phase + N			
Frequency	45 ÷ 65 Hz			
Power factor	> 0,99			
Current harmonic distortion	< 3%			
Soft start	0 ÷ 100% in 30“ (configurable)			
Frequency tolerance	± 2% (selectable from ± 1% do ± 5%)			
Standard features	Back Feed protection; separable bypass line			
Batteries	**MPS-HP 100**	**MPS-HP 120**	**MPS-HP 160**	**MPS-HP 200**
Type	Lead, open vase acid and VRLA AGM / GÉL; NiCd			
AC ripple current	0			
Temperature compensation	- 0,5 V / ℃			
Outputs	**MPS-HP 100**	**MPS-HP 120**	**MPS-HP 160**	**MPS-HP 200**
Rated power (kVA)	100	120	160	200
Active power with load from 0.9 cap. To 0.8 ind. (kW)	80	96	128	160
Number of phases	3 + N			
Rated voltage	380 – 400 – 415 Vac + N			
Static stability	±1%			
Dynamic stability	±5% in 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-HP 100**	**MPS-HP 120**	**MPS-HP 160**	**MPS-HP 200**
Remote signaling	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)	800 x 850 x 1900		1000 x 850 x 1900	
Weight (kg)	656	700	800	910
Noise level	63 ÷ 68 dBA / 1m			
Operating temperature	0℃ ÷ +40 ºC, optimal +15℃ / +25℃			
Relative humidity	< 95% non condensing			
Protection	IP20			
Color	Light grey (RAL 7035)			
Compliance	Safety: IEC EN 62040-1; EMC EN 62040-2; Performance: IEC EN 62040-3			
Classification as per IEC EN 62040-3	(Voltage Frequency Independent) VFI – SS – 111			

UPS

Sentry MPS-HP

Technical data

Three-phase input
Three-phase output

Model	MPS-HP 250
Power (kVA)	250
Input	**MPS 250**
Rated voltage	380 – 400 – 415 Vac 3 Phase + N
Accepted frequency	±2% (selectable from ±1% to ±5% from the front panel
Frequency	45 ÷ 65 Hz
Power factor	> 0,99
Current harmonic distortion	< 3%
Soft start	0÷100% in 30' configurable
Batteries	**MPS 250**
Type	Lead, open vase acid and VRLA AGM / GÉL; NiCd
AC ripple current	0
Temperature compensation	- 0,5 V / ℃
Outputs	**MPS 250**
Rated power (kVA)	250
Active power with load from 0.9 cap. To 0.8 ind. (kW)	200
Number of phases	3 + N
Rated voltage	380 – 400 – 415 Vac + N (selectable)
Static stability	±1%
Dynamic stability	±5% in 10 ms
Voltage distortion with linear load	≤ 1%
Voltage distortion with non-linear load	≤ 3%
Frequency	50 / 60 Hz (selectable)
Waveform	Sinusoidal
Crest factor (Ipeak/Ipms)	3 : 1
Overload	110% / 125% / 150% for 60 min / 10 min / 1 min
System	**MPS 250**
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)	1000 x 850 x 1900
Weight (kg)	1000
Noise level	63 ÷ 68 dBA / 1m
Operating temperature	0℃ ÷ +40 ºC, optimal +15℃ / +25℃
Relative humidity	< 95% non condensing
Protection	IP20
Color	Light grey (RAL 7035)
Compliance	Safety: IEC EN 62040-1; EMC EN 62040-2; Performance: IEC EN 62040-3 Directives 2004/108/EC
Classification as per IEC EN 62040-3	(Voltage Frequency Independent) VFI – SS – 111