

6DOCDEP03UP10 - Specifications subject to change without prior notice

# Sentry MPS

UPS from 250kVA to 800kVA

Three-phase input, Three-phase output

## High availability

AROS's Sentry MPS series UPS are true-on-line double conversion UPS' incorporating the latest IGBT technology and PWM (Pulse Width Modulated) technique which make Sentry MPS series a very fast regulator in driving non linear load.

## High versatility

Sentry MPS is a family of high performance UPS' available from 250kVA up to 800kVA in 6-Pulse (only from 250kVA to 400kVA) and 12-Pulse.

One of the most important feature of the Sentry MPS series is its parallel/parallel redundant capability: the UPS systems are installed so that in the event of a UPS failure, one UPS would switch out of circuit leaving the other UPS(s) to support the load.

## Advanced communication

AROS "Watch & Save" software provides comprehensive management and control of the power environment surrounding the critical applications. It enables the user to remotely view all the necessary information on the status of the UPS.

## Teleassistance

Teleguard is a system for the remote control and monitoring of UPS' located anywhere in the world and connected via serial line, network or modem.

## Main Features:

- True on-line double conversion system
- Quick and easy commissioning
- Back feed protection against energy return to the mains
- Inverter bridge with IGBT
- E.P.O. (Emergency Power Off)
- Parallel and redundant configurations up to 6 units
- Multilanguage diagnostic software
- Optional features to further reduce harmonics
- Stand-by on operation

## Applications:

- Local Area Networks (LAN)
- Servers
- Industrial PLCs
- Electromedical equipments
- Telecommunication devices
- Industrial processes



# AROS

THE SCIENCE OF CONTINUITY

COMPANY  
WITH QUALITY SYSTEM  
CERTIFIED BY DNV

ISO 9001

Certificate No.

CERT-04116-99-AQ-MIL-SINCERT

# Technical data

## Input

	250	300	400	500	600	800
Three-phase voltage + N	400V+N ±20%					
Frequency	from 45 to 65 Hz					
Current distortion THDi at 100% load	30%, power factor 0,8					
Current distortion THDi at 100% load With harmonic reduction filter (optional)	5%, power factor 0,92					
Current distortion THDi at 100% load With 12 pulses rectifier (optional)	8%, power factor 0,8					

## By-pass

	250	300	400	500	600	800
Three-phase voltage + N	400V + N					
By-pass	static + manual for the maintenance					
Overload for 1 min.	175%					
Transfer time	0 ms					

## Output

	250	300	400	500	600	800
Power at cosφ 0,8	200 kW	240 kW	320 kW	400kW	480 kW	640 kW
Three-phase voltage	400 V+N, 380/415V selectable					
Voltage stability	± 1% static, ± 5% dynamic					
Wave form	sinusoidal with distortion < 2% (linear load)					
Frequency	50/60 Hz					
Frequency stability	± 0.05% in battery operation, ±5% selectable, ± 2% in mains synchronism					
Crest factor	3:1					
Overload	125% for 10 min., 150% for 1 min.					

## System

	250	300	400	500	600	800
AC-AC efficiency	93% On-line, 98% Eco mode					
Operating altitude without derating	1000mt a.s.l.					
Noise in db (A) at 1 m depending on load and temperature	65					
Operating temperature	from 0° to 40° C					
Humidity	95% (w/o condensing)					
Standards	safety EN 50091-1-2, EMC EN 50091-2					
Filters for harmonic reduction	optional					
Remote signals	standard, free voltage alarm contacts + auxiliary power supply					
Computer interface	standard: RS232/C					
Remote control	standard: Emergency Power Off (EPO), inverter power off					
Protection against back-feed on mains	standard					
Protection level	IP20					
Colour	RAL 7035					

## 6-Pulse Rectifier

Power (kVA)	Models	Dimensions W x D x H (mm)	Weight (kg)
250	250 00 6-PULSE	1500x900x1800	2500
300	300 00 6-PULSE	2360x900x1800	2800
400	400 00 6-PULSE	2920x900x1800	3000

## 12-Pulse Rectifier

Power (kVA)	Models	Dimensions W x D x H (mm)	Weight (kg)
250	250 00 12-PULSE	2160x900x1800	2600
300	300 00 12-PULSE	2360x900x1800	3000
400	400 00 12-PULSE	2920x900x1800	3300
500	500 00 12-PULSE	3200x980x1900	3600
600	600 00 12-PULSE	3200x980x1900	4000
800	800 00 12-PULSE	4400x980x1900	6000