Aros Sentry HPS HT-120kVA

Reliable Power. Maximum Protection. Zero Compromise

Three-Phase Online Double Conversion UPS for Mission-Critical Applications

Designed for the most demanding electrical environments, the Aros Sentry HPS HT120 delivers continuous, clean, and stable power through Online Double Conversion Technology. Intelligent digital control improves system reliability, while high-efficiency operation helps reduce operating costs. The system also supports advanced battery management, remote monitoring, and scalable parallel expansion.



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Sentry HPS

Three-phase input
Three-phase output

Technical data





Input	HT100	HT120
Nominal voltage	400 V three-phase ±20 %	
Frequency (Hz)	45 ÷ 65 Hz	
Power factor	0,92 with input filter	
Current harmonic distortion (THDi)	5% with input filter	
Soft start	0-100% in 10 seconds	

By-pass line	HT100	HT120
Nominal voltage	400 V three-phase + N	
Permitted voltage range	±15% (selectable from ±10% to ±25% from front panel)	
Nominal frequency	50 or 60 Hz	
Permitted frequency range	±2% (selectable from ±1% to ±5% from front panel)	
Overload capacity for 10 ms	1200%	1000%
By-pass	static and manual for maintenance	
Transfer time	0 ms (2-4ms in Eco Mode)	

Batteries	HT100	HT120
Number of battery cell (Pb)	216	240
Nominal battery voltage	480 V	530 V
Type	Sealed Lead Acid, Vented Lead Acid, Nickel Cadmium	
Max. recharge current (1)	35 A	
Recharging voltage	variable according to the temperature (-0,5 Vx°C)	
Ripple voltage	<1%	

Output	HT100	HT120
Nominal power (kVA)	100	120
Active power (kW) at cosφ 0,8	80	96
Nominal voltage	380-400-415 V three-phase + N (selectable)	
Voltage stability	± 1% static, ± 5% dynamic	
Nominal current (A)	145	174
Frequency	50 / 60 Hz	
Frequency stability	± 0,05% in battery operation, ± 2% in synchronism with mains (± 5% selectable)	
Crest factor (EN 60040-3)	3 : 1	
Overload (kVA)	110 % for 300', 125% for 10', 150% for 1'	

System	HT100	HT120
AC-AC efficiency	93% On-line, 98% Eco-Mode	
Operating altitude without derating	1000 m a.s.l.	
Noise at 1 m depending on load and temperature	60÷ 65 dBA	
Operating temperature	0 ÷ 40 °C	
Relative humidity	95% (non-condensing)	
Standards	safety EN 62040-1, EMC IEC 62040-2 and EN 50091-2, Directives 73/23, 93/68, 89/336 EEC, EN 62040-3	
Back feed protection	standard	
Protection degree	IP20	
Colour	RAL 7035	

(1) with approx 80 % load.

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Power (kVA)	Model	Back-up (min)	Batteries	Dimensions WxDxH (mm)	Weight (kg)
100	HT100 00 6pulse	0	–	1070x740x1400	650
100	HT100 00 12pulse	0	–	1420x740x1400	800
120	HT120 00 6pulse	0	–	1070x740x1400	750
120	HT120 00 12pulse	0	–	1420x740x1400	900

Battery Cabinets

Power (kVA)	Model	Back-up (min)	Batteries	Dimensions WxDxH (mm)	Weight (kg)
100	36 Battery blocks A65	7	A65	860x740x1800	1030
100	36 Battery Blocks A80	10	A80	860x740x1800	1054
100	36 Battery Blocks A100	15	A100	860x740x1800	1342
100	36 Battery Blocks A120	20	A120	860X740X1800	1342
100	2x36 Battery Blocks A80	30	2xA80	2x(860x740x1800)	2108
100	2x36 Battery Blocks A100	40	2xA100	2x(860x740x1800)	2684
100	2x36 Battery Blocks A120	50	2xA120	2x(860x740x1800)	2684
100	3x36 Battery Blocks A100	60	3xA100	3x(860x740x1800)	4026
120	40 Battery Blocks A65	6	A65	860x740x1800	1120
120	40 Battery Blocks A80	10	A80	860x740x1800	1150
120	40 Battery Blocks A100	15	A100	860x740x1800	1470
120	40 Battery Blocks A120	20	A120	860X740X1800	1470
120	2x40 Battery Blocks A80	30	2xA80	2x(860x740x1800)	2300
120	2X40 Battery Blocks A100	40	2xA100	2X(860x740x1800)	2940
120	2x40 Battery Blocks A120	50	2xA120	2x(860x740x1800)	2940
120	3x40 Battery Blocks A100	60	3xA100	3x(860x740x1800)	4410

Note:
The back-up time relates to the UPS without internal batteries.

Isolation transformers for HT Series

Power (kVA)	Dimensions WxDxH (mm)	Weight (Kg)
100	640x740x1400	480
120	640x740x1400	500

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