

Argentina

Chloride Koexa S.A.
San Nicolás 1542
(C1407DDD) Buenos Aires
Argentina
Tel: +54 11 4639-4404
Fax: +54 11 4639-4405

Australia

Chloride Power Protection Pty Ltd
Ground Floor
16 Giffnock Avenue
North Ryde NSW 2113
Australia
Tel: +61 (0) 2 98881266
Fax: +61 (0) 2 98881966

Brazil

Chloride Power Protection
Av. Eng. Alberto de Zagottis, 695
Jurubatuba - São Paulo - SP
CEP: 04675-085
Brasil
Tel: +55 11 5541 5599
Fax: +55 11 5541 5599

China

Chloride Masterguard Power Systems Ltd.,
Shanghai (CMPS)
CIMIC Tower, Office 417
1090 Century Avenue
Pudong
Shanghai 200120
China
Tel: +86 21 58361820
Fax: +86 21 58361690

France & International

Chloride Industrial Systems
30 Avenue Montgolfier - BP 90
69684 Chassieu Cedex
France
Tel: +33 (0) 4 78 40 13 56
Fax: +33 (0) 4 78 90 58 90

Chloride Power Protection
1 rue Félix Potin
Z.A. Les Belles Vues
91290 Arpajon
France
Tel: +33 (0) 1 69 26 12 81
Fax: +33 (0) 1 60 83 18 16

Germany

Masterguard GmbH
Schallershofer Str. 141
91056 Erlangen
Germany
Tel: +49 (0) 9131 6300 100
Fax: +49 (0) 9131 6300 270

Italy

Chloride UPS Systems
Via Fornace 30
40023 Castelguelfo
Bologna
Italy
Tel: +39 0542 632111
Fax: +39 0542 632120

Portugal

Chloride Power Protection
Rua dos Terços 574
Zona Industrial de Canelas
4405 270 Canelas VNG
Portugal
Tel: +351 (0) 2 27 151210
Fax: +351 (0) 2 27 126337

Spain

Chloride España, S.A.U.
Edificio Europa III
C/San Rafael 1. Pol. Ind. Alcobendas
28108 Alcobendas Madrid
Spain
Tel: +34 91 414 00 30
Fax: +34 91 662 37 76

Thailand

Chloride Power Protection
Panjathani Tower, 20th Floor
127/25 Nonsee Road
Chongnonsee
Yannawa
Bangkok 10120
Thailand
Tel: +662 681 0100
Fax: +662 681 0109

Turkey

Masterguard
Sebnem Sok n°:14 K:4
81110 Bostanci-Istanbul
Turkey
Tel: +90 216 464 47 00
Fax: +90 216 464 47 15

UAE

Chloride Industrial Middle East
FZ LLC
PO BOX 500221
Building 5, office 118
Dubai internet city
Dubai
UAE
Tel: +971 4 391 5333
Fax: +971 4 391 5335

UK

Chloride Power Protection
George Curl Way
Southampton
SO18 2RY
UK
Tel: +44 (0) 23 8061 0311
Fax: +44 (0) 23 8061 0852

USA

Chloride Power Protection
27944 North Bradley Road
Libertyville
IL 60048
USA
Tel: + 1 847 816 6000
Fax: + 1 847 549 7919

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CHLORIDE
INDUSTRIAL SYSTEMS

Chloride Industrial Systems
30 avenue Montgolfier - BP 90
69684 Chassieu cedex - France
Tel.: +33 (0)4 78 40 13 56
Fax: +33 (0)4 78 90 58 90

www.chloridepower.com
industrial.sales@chloridepower.com
industrial.support@chloridepower.com



EXCOR APODYS AC UPS 2.5 kVA - 500 kVA

The Range

The Excor Apodys range of industrial Uninterruptible Power Systems (UPS) is available from 2.5 to 120 kVA as standard, in single or 3-phase output configurations.

Flexibility for Customised Solutions

Excor Apodys is fully adaptable to changes in electrical load: power upgrades are quickly and successfully achieved by connecting up to 8 units in parallel.

Higher ratings can be designed for specific power protection requirements (up to 200kVA 1ph, and 500kVA 3ph).

If the only mains voltage available on the installation site is single-phase, both Apodys Excel and Exond ranges can be combined to provide a double conversion specific UPS with single-phase input.

A full range of additional options is available to offer tailored industrial solutions:

- AC and/or DC distributions,
- isolated DC/DC converters,
- up to IP54 external protection,
- modular or centralised parallel configurations,
- EEx battery protection boxes...

Leading Technology

Chloride employ patented Vector Control technology to increase the performance of power components and enable active conditioning of the load. The result is improved reliability for processes and enhanced safety for personnel, even in the harshest operating environments.

The innovative modular assembly allows us to satisfy the most demanding international project schedules.

The product design affords easy front-access to all vital modules of the system. As a result, maintenance times are significantly reduced.

Reliability

Excor Apodys provides lasting secure power architecture for your industrial applications thanks to:

- on-line double conversion topology,
- continuous operation at full load in a permanent 40°C ambient temperature,
- system lifetime of at least 20 years in continuous operation conditions,
- robust mechanical design (vertical and horizontal acceleration stress up to 0,2g).

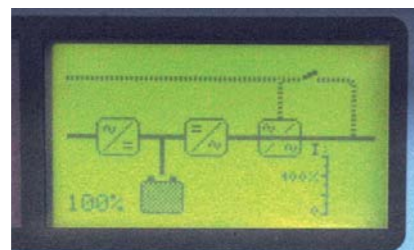
Communication

Excor Apodys uses intuitive multi-lingual digital graphic control, meaning system status, measurements and alarms are accessible from the front panel of the UPS.



The embedded 'Event Log' function allows the user to trace the last 100 events. Event memory is activated from the first event appearance on.

RS232, RS485 and voltage-free contacts allow the monitoring of UPS on SCADA systems.



Advanced Battery Care

Excor Apodys is fully compatible with lead-acid and nickel-cadmium batteries, sealed or vented.

A programmable battery test evaluates the efficiency of your battery.

Tests on individual cells are achieved by employing our latest battery management system.

Battery cabinets matching the UPS system cabinet can be offered, regardless of the autonomy needed.

Monitoring

The Apodys family is fully compatible with LIFE.net, Chloride's remote monitoring service, which provides:

- continuous real time UPS monitoring,
- regular transmission of an operating status report,
- UPS performance analysis,
- power Quality Monitoring to analyse Mains disturbance trends.

Applications

Excor Apodys protects heavy duty applications, such as:

- oil and gas offshore and onshore,
- refining, petrochemicals,
- power generation, transmission and distribution,
- transportation (rail, aeronautic)...



Secure Power Always

In order to reach the highest level of business continuity, Chloride offers a range of maintenance plans which will:

- help deliver reliability to your load,
- increase the lifetime of your power protection equipment,
- optimise your capital expenditure,
- provide risk management at a fixed cost,
- provide a pro-active approach to disaster recovery.

For more information please contact your local Chloride sales office.

www.chloridepower.com

Delegate your power management to the experts.

Technical data

	Ratings (kVA)	2,5	5	7,5	10	15	20	25	30	40	50	60	80	100	120*	
AC/AC UPS 3/1 Single-phase output	110 VAC output															
	230 VAC output															
AC/AC UPS 3/3 Three-phase output	3 x 220 VAC output															
	3 x 400 VAC output															

* And up to 500 kVA upon request

Input

Nominal AC 3-phase input voltage	3 x 400 VAC (3 x 380 V, 3 x 415 V)
Nominal AC 1-phase input voltage	110 VAC (120); 1 x 230 VAC (220, 240) please consult us for availability of ratings
Input voltage tolerance	± 15%
Nominal input frequency / tolerance	50 Hz (60Hz) ± 5%

Intermediaire DC circuit

DC voltage	110 / 220 / 400 VDC
Rectifier output voltage stability	< 1%
Rectifier output voltage ripple	< 2 % RMS in floating mode
Inverter input voltage range	-20% / +18%

Output

Rated AC output voltage	1 x 110 V / 1 x 230 V / 3 x 220 V / 3 x 400 V
Rated output frequency	50 Hz (60 Hz)
Frequency response	< 1 Hz / sec
Frequency stability :	
• with own oscillator	± 0,05%
• with Mains synchronisation	± 3% (from 0,2 to 6% adjustable)
Harmonic distortion	
• with 100% linear load	< 3%
• with 100% non-linear load - CF 3/1	< 5%
Synchronisation voltage limits	± 15%
Output voltage stability (0-100% load variation) :	
• static (balanced load)	± 1%
• static (unbalanced load)	± 2%
• dynamic	± 3%
Overload capacity	125% for 10min. / 150% for 60 sec.
Short-circuit capability	2.5In/100ms - 1.75In/10s (UPS 1-ph) - 3.15In/100ms - 2.2In/5s (UPS 3-ph - Ph-N)
Load power factor	0,5 lag to 0,9 lead
Output Crest factor admissible	3:1

General Data

Operating temperature	Rated power available from 0 °C to 40 °C in permanent operating conditions
Relative humidity	< 90% non condensing
Operating altitude	1000m (without derating)
Cooling	Fan assisted, Turbine-forced according to ratings
External protection	IP 20 as standard (others available upon request)
Internal protection	IP 20
Lock	Steel locked door
Painting	Grey RAL 7035 textured semi-gloss
Dimensions	according to ratings and options

Standards

Compliance	IEC 950, 439, 146, 529, 726, EMC (62040-2) and safety (62040-1-2)
US Standards	Manufacturing following UL, ANSI, NEMA, IEEE standards is available upon demand

Options

Rectifier	12-pulse rectifier, harmonic filters, ripple filters, special Mains...
Battery	Battery protection box, Battery Management System, matching battery cabinet...
Reserve	By-pass transformer, by-pass stabiliser, by-pass harmonic filters...
System	Parallel configurations, DC/DC serial regulator, isolated DC/DC converter, distribution...
Mechanical	Up to IP54 external, top cable entry, other painting, anti-seismic...