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**Excior Apody**  
2.5 KVA - 500 KVA

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# 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).

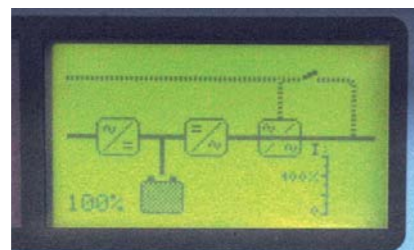
## Communication

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](http://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*	
<b>AC/AC UPS 3/1</b> Single-phase output	110 VAC output															
	230 VAC output															
<b>AC/AC UPS 3/3</b> 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...