

Excor Apodys - AC UPS system from 2.5 kVA to 500 kVA



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The Excor Apodys range of industrial Uninterruptible Power Systems (UPS) is available from 2.5 to 120 kVA as standard, in single or three-phase output configurations and may be customized to reach up to 500 kVA.

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 200 kVA 1ph, and 500 kVA 3 ph).

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 0,5g).

Communication

Excor Apodys uses intuitive multilingual 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 plants
- Transportation (rail, metros...).

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.

Delegate your power management to the experts.

RANGE OF RATINGS (kVA)	2.5	5	7.5	10	15	20	25	30	40	50	60	80	100	120 (up to 500 kVA available on request)
Output type	One-phase output												Three-phase output	
Intermediate DC voltage (VDC)	110	110	220	220	400	400	110	110	220	220	400	400	110	110
Output AC voltage (VAC)	1 x 110	1 x 230	1 x 110	1 x 230	1 x 110	1 x 230	3 x 220	3 x 400	3 x 220	3 x 400	3 x 220	3 x 400	3 x 220	3 x 400
Available range of ratings (kVA)	2.5 - 60	2.5 - 60	10 - 100	10 - 120	40 - 120	40 - 120	5 - 50	5 - 50	15 - 100	15 - 100	40 - 120	40 - 120	40 - 120	40 - 120

TECHNICAL CHARACTERISTICS		
INPUT		
Nominal AC voltage (VAC)	3 x 400 (3 x 380,3 x 415)	
Tolerance (%)	+15/-10	
Nominal frequency (Hz)	50 (60)	
Tolerance (%)	± 5	
INTERMEDIAIRE DC CIRCUIT		
DC voltage (VDC)	110 / 220 / 400	
Rectifier output voltage stability	< 1 %	
Rectifier output voltage ripple	< 2 % RMS in floating mode	
Inverter input voltage range	-20% / +18%	
OUTPUT		
Nominal AC output voltage (VAC)	1x110(120) ; 1x230 (220,240)	3 x 220; 3 x 400 (380,415)
Frequency (Hz)	50 (60)	
Available ratings (kVA)	see above	
Frequency response	< 1 Hz / sec	
Frequency stability with own oscillator with mains synchronisation	± 0,05% ± 3% (from 0,2 to 6% adjustable)	
Harmonic distorsion with 100% linear load with 100% non-linear load - CF 3/1	< 3% < 5%	
Synchronisation voltage limits	± 15%	
Output voltage stability (for 0-100% load variation) static (balanced load) static (unbalanced load) dynamic	±1% ±2% ±3%	
Overload capacity	125% for 10min. / 150% for 60 sec.	
Short-circuit capability	250% (100ms) - 175% (5s)	315% (100ms) - 240% (5s) - Ph/N
Load power factor	0,5 lagging to 0,9 leading	
Output Crest factor admissible	3:1	
GENERAL DATA		
Operating temperature (°C)	0 - 40 (in permanent operation conditions)	
Relative humidity (%)	< 95% (non condensing)	
Storage temperature (°C)	-20 to +70	
Operating altitude (m)	1000 (without derating)	
Cooling	Fan assisted	
External protection	IP 20*	
Internal protection	IP 20	
Lock	Steel locked door with door handle	
Frame colour	Grey RAL 7032 textured semi-gloss	
Dimensions	Varying 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	
Battery	Battery protection box, low-voltage disconnect contactor, 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, meters, volt-free contacts, serial link, PPVis monitoring software	
Mechanical	Up to IP54 external, top cable entry, other frame colour, anti-seismic design	

*Other type of protection available upon request.

This product may differ slightly from the product photograph on the front cover.

This publication is issued to provide outline information only and is not deemed to form any part of any offer and/or contract. The company has a policy of continuous product development and improvement, and we therefore reserve the right to vary any information without prior notice. MKC410UKEXCA Rev 1.06/2008

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