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Exond ApodyS
2,5 kVA - 400 kVA

CHLORIDE
INDUSTRIAL SYSTEMS

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DC/AC INVERTER

EXOND APODYS 2,5 kVA - 400 kVA

The Range

The Exond Apodys range of industrial inverters converts a DC input voltage into a perfect sinusoidal output voltage to provide power supply to AC loads. This range is available as standard from 2.5 to 200kVA in single phase output configuration, and up to 400 kVA in 3-phase output configuration.

Flexibility for Customised Solutions

Exond Apodys is fully adaptable to changes in electrical load. A full range of additional options is available to provide tailored industrial solutions:

- AC distribution board,
- redundant ventilation,
- modular or centralised parallel configurations,
- up to IP54 external protection...

For special configurations where a reserve supply is needed to secure the load on the output of the inverter, the following solutions can be designed:

- integration of the static switch into the inverter cabinet to ensure the automatic transfer on the reserve supply,
- monitoring of the reserve supply voltage,
- additional reserve transformer to adapt the reserve supply voltage to the inverter output voltage,
- additional reserve stabiliser to control the reserve supply voltage within tolerance limits.

Exond Apodys inverters are also available with 400VDC input. This configuration allows us to combine this inverters range with the Excel Apodys battery chargers range in order to design specific high ratings double conversion AC UPS systems (up to 500kVA).

Leading Technology

Chloride employs patented Vector Control technology to increase the power components performances and to provide 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 of Exond Apodys allows us to satisfy the most demanding international project schedules.

Reliability and accessibility

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

- system lifetime of at least 20 years in continuous operation conditions,
- continuous operation at full load in a permanent 40°C ambient temperature,
- robust mechanical design (vertical and horizontal acceleration stress up to 0,2g),
- high clearance capacity to eliminate short-circuits downstream the inverter (short-circuit withstanding of 250% of nominal rating).
- front access to the main components, reducing MTTR and easing maintenance operations.

Communication

Exond Apodys uses intuitive multilingual digital graphic control, meaning system status, measurements and alarms are accessible from the front panel of the inverter.



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 the inverter on SCADA systems.

Monitoring

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

- continuous real time inverter monitoring,
- regular transmission of an operating status report,
- inverter performance analysis,
- monitoring of the input voltage quality.

Applications

The Exond Apodys range delivers a clean and stable 1-phase or 3-phase power supply to critical industrial applications such as:

- equipments of power generation plants,
- monitoring and control systems as well as automation systems,
- safety systems,
- electrical process of oil platforms and refineries...



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

	Rating (A)	2,5	5	7,5	10	15	20	25	30	40	50	60	80	100	120	160	200	250	320	400	
1-Phase output 110 VAC		110/220 VDC																			
1-phase output 230 VAC		110 VDC										220 VDC									
3-phase output 220VAC ou 400VAC		110 VDC										220 VDC									

Input

DC input voltage	110 / 200 VDC
Input voltage tolerance	-20% / +18%

Output

1-phase AC output voltage	1x110VAC (120) or 1x230VAC (220 / 240)
3-phase AC output voltage	3x220VAC or 3x400VAC (380 / 415)
Output frequency	50 Hz (60 Hz)
Frequency response	1 Hz / sec
Frequency stability:	
• with own oscillator	± 0,05%
• with Mains synchronisation	± 3% (adjustable from 0,2% to 6%)
Harmonic distortion:	
• with 100% linear load	3%
• with 100% non-linear load - CF 3/1	5%
Synchronisation voltage limits	±15%
Dynamic voltage response	±3% (for 0-100% of load variation)
Static regulation (100% of load)	±1% (in steady state)
Overload capacity	125% for 10 min. / 150% for 1 min.
Short-circuit capability	250% de IN
Load power factor	0,5 lag to 0,9 lead
Output crest factor admissible	3:1

General data

Operating temperature	0 to 40°C
Relative humidity	< 95% non condensing
Operating altitude	1000m (without derating)
Cooling	Fan-assisted or turbine-forced according to ratings
External protection	IP20 as standard (other upon request)
Lock	Steel locked door
Painting	Grey RAL7035 textured semi-gloss
Dimensions	According to ratings - consult us

Standards

Compliance	IEC 950, 439, 146, 529, 726 - EMC (62040-2) and security (62040-1-2)
CE directives	73 / 23 / EEC - LVD and 89 / 336 / EEC - EMC
US standards	Manufacturing following UL, ANSI, NEMA, IEEE standard is available upon demand

Options

Inverter	Special input voltage between 48VDC and 600VDC, special output voltage between 1x110VAC and 3x690VAC, additional voltage-free contact, inrush current limitation, protection against sudden loss of DC input, AC earth fault alarm...
Reserve supply System	By-pass transformer, by-pass stabilizer, reserve voltage monitoring... Front-face active or passive mimic panel, parallel configurations, AC distribution...
Mechanical	Top cables entry, special painting, anti-seismic...