

Excel Apody's - DC UPS from 600 W to 220 kW



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The Excel Apodys range of industrial rectifiers/battery chargers is available as standard from 600 W to 55 kW in one-phase input configuration, and up to 220 kW in three-phase input configuration.

Flexibility for customised solutions

Excel Apodys is fully adaptable to customers' power protection needs. A full range of additional options is available enabling us to tailor solutions for diverse industrial environments:

- 12-pulse rectifiers
- DC distribution
- Isolated DC/DC converters
- Up to IP65 external protection
- Parallel configurations with 50% or 100% battery
- Battery Management system
- EEx battery protection boxes.

For long-lasting power interruptions, Excel Apodys can be designed to operate with extended battery autonomies: up to 72 hours autonomies provide permanently secured industrial processes.

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

Leading technology

Excel Apodys applies the latest Digital Control technology to control the 6-pulse thyristor-bridge rectifier. The embedded Digital Signal Processor (DSP) processes signals by up to 10 times faster than standard analogue methods. The result is improved process reliability 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

Excel Apodys provides lasting secure power architecture for your industrial applications through:

- Natural ventilation on most of the range
- 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 0,5 g as standard).

Communication

Excel 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

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

A programmable battery test evaluates the efficiency of the entire battery.

Tests on individual cells are achieved by employing our latest Battery Management system option.

Battery cabinets matching the DC-UPS system cabinet can be offered, regardless of the required autonomy. This allows a homogeneous UPS system within technical rooms.

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

Excel Apodys protects DC powered electrical equipments of 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.

Delegate your power management to the experts.

RANGE OF RATINGS	16	25	40	60	80	100	125	160	200	250	320	400	500	600	800	1000	1200	1500	2000	2500
Input type	One-phase										Three-phase									
Output DC voltage (VDC)	24		48		110		220		24		48		110		220					
Available range of ratings (A)	25 - 250		25 - 250		25 - 250		25 - 250		25 - 2500		25 - 1200		16 - 1200		16 - 1000					

TECHNICAL CHARACTERISTICS	
INPUT	
Nominal AC voltage (VAC)	1 x 230 (220, 240) / 3 x 400 (380, 415)
Input voltage tolerance (%)	+ 15 / -10
Input frequency (Hz)	50 (60)
Input frequency tolerance (%)	± 5
OUTPUT	
Nominal DC voltage (VDC)	24 / 48 / 110 / 120 / 220 / 240*
Available ratings (A)	see above
Voltage stability	< 1% (in float mode, 0 to 100% load step, input within voltage tolerance)
Voltage ripple	< 1% RMS
Boost mode current limitation	0,1 C10 (Lead Acid battery) / 0,2 C5 (Nickel Cadmium battery)
GENERAL DATA	
Operating temperature (°C)	0 - 40 (in permanent operation conditions)
Storage temperature (°C)	-20 to +70
Relative humidity (%)	< 95%
Operating altitude (m)	1000 (without derating)
Cooling	Natural ventilation on most of the range. (Fan-assisted for ratings above 1200 A)
External protection	IP20 (up to IP42 upon request)
Internal protection	IP20
Noise (dB)	< 60
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, 62040-1, -2, -3
CE directives	73 / 23 / EEC - LVD and 89 / 336 / EEC - EMC
US Standards	Manufacturing following UL, ANSI, NEMA, IEEE standards is available upon demand
OPTIONS	
Rectifier	12-pulse rectifier (for 3-ph input), harmonic filters, ripple filters, dropping diodes, meters, volt-free contacts, serial link
Battery	Battery protection box, battery cabinet, Low-voltage disconnect contactor, matching battery cabinet, Battery Management System
System	Parallel configurations, DC/DC serial regulator, isolated DC/DC converter, DC distribution, PPVis monitoring software
Mechanical	Up to IP65 external, top cable entry, other frame colour, anti-seismic design

*For other voltages, please contact us.

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. MK44USJUNEXA Rev. 1/07/2008

Chloride Industrial Systems
Chloride France S.A.

30 avenue Montgolfier - BP90
69684 Chassieu Cedex
France

T +33 (0) 4 78 40 13 56

F +33 (0) 4 78 90 58 90

E industrial.sales@chloridepower.com

CHLORIDE
SECURE POWER

www.chloridepower.com

Closest Chloride Contact in South East Asia:

CHLD Singapore Pte Ltd

2 Corporation Road
#03-07 Corporation Place
Singapore
618494

T +65 6481 4776

F +65 6481 0552

E singapore.sales@chloridepower.com

www.chloridepower.com.sg

For a full list of contacts please visit our website at www.chloridepower.com

