

CHLORIDE INDUSTRIAL SYSTEMS

Secure Power Always

Excel - DC UPS from 600 W to 220 kW



DC UPS - Rectifier - Battery charger

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

Flexibility for customised solutions

Excel 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:

- DC distribution
- Dropping diodes
- Up to IP42 external protection
- Parallel configurations with 50% or 100% battery
- EEx battery protection boxes.

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

Leading technology

Excel applies the latest Digital Control technology to control the 6-pulse thyristor-bridge rectifier. The embedded Digital Signal Processor (DSP) processes signals 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 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 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 as event memory is activated from the appearance of the first event .

Furthermore, fault information is available on voltage-free contacts to allow remote monitoring of the system.

Advanced battery care

Excel is fully compatible with lead-acid and nickel-cadmium batteries, sealed or vented. A programmable battery test evaluates the efficiency of the entire battery.

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.

Applications

Excel protects DC powered electrical equipments of heavy duty applications, such as:

- Power generation, transmission and distribution.

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 (A)	16	25	40	60	80	100	125	160	200	250	320	400	500	600	750	1000	1250	1500	2000	2500
Output DC voltage (VDC)	24					48					110					220				
Available range of ratings (A)	25 - 2500					25 - 1200					16 - 1200					16 - 1000				

TECHNICAL CHARACTERISTICS	
INPUT	
Nominal AC voltage (VAC)	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
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
OPTIONS	
Rectifier	Dropping diodes, meters, volt-free contacts
Battery	Battery protection box, battery cabinet
System	Parallel configurations, DC distribution
Mechanical	Up to IP42 external

* 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. MIC44LOUXE Rev. 1-06/2008

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