

Argentina

Chloride Koexa S.A.
San Nicolás 1542
(C1407DDD) Buenos Aires
Argentina
Tel: +54 11 4639-4404
Fax: +54 11 4639-4405

Australia

Chloride Power Protection Pty Ltd
Ground Floor
16 Giffnock Avenue
North Ryde NSW 2113
Australia
Tel: +61 (0) 2 98881266
Fax: +61 (0) 2 98881966

Brazil

Chloride Power Protection
Av. Eng. Alberto de Zagottis, 695
Jurubatuba - São Paulo - SP
CEP: 04675-085
Brasil
Tel: +55 11 5541 5599
Fax: +55 11 5541 5599

China

Chloride Masterguard Power Systems Ltd.,
Shanghai (CMPS)
CIMIC Tower, Office 417
1090 Century Avenue
Pudong
Shanghai 200120
China
Tel: +86 21 58361820
Fax: +86 21 58361690

France & International

Chloride Industrial Systems
30 Avenue Montgolfier - BP 90
69684 Chassieu Cedex
France
Tel: +33 (0) 4 78 40 13 56
Fax: +33 (0) 4 78 90 58 90

Chloride Power Protection
1 rue Félix Potin
Z.A. Les Belles Vues
91290 Arpajon
France
Tel: +33 (0) 1 69 26 12 81
Fax: +33 (0) 1 60 83 18 16

Germany

Masterguard GmbH
Schallershofer Str. 141
91056 Erlangen
Germany
Tel: +49 (0) 9131 6300 100
Fax: +49 (0) 9131 6300 270

Italy

Chloride UPS Systems
Via Fornace 30
40023 Castelguelfo
Bologna
Italy
Tel: +39 0542 632111
Fax: +39 0542 632120

Portugal

Chloride Power Protection
Rua dos Terços 574
Zona Industrial de Canelas
4405 270 Canelas VNG
Portugal
Tel: +351 (0) 2 27 151210
Fax: +351 (0) 2 27 126337

Spain

Chloride España, S.A.U.
Edificio Europa III
C/San Rafael 1. Pol. Ind. Alcobendas
28108 Alcobendas Madrid
Spain
Tel: +34 91 414 00 30
Fax: +34 91 662 37 76

Thailand

Chloride Power Protection
Panjathani Tower, 20th Floor
127/25 Nonsee Road
Chongnonsee
Yannawa
Bangkok 10120
Thailand
Tel: +662 681 0100
Fax: +662 681 0109

Turkey

Masterguard
Sebnem Sok n°:14 K:4
81110 Bostanci-Istanbul
Turkey
Tel: +90 216 464 47 00
Fax: +90 216 464 47 15

UAE

Chloride Industrial Middle East
FZ LLC
PO BOX 500221
Building 5, office 118
Dubai internet city
Dubai
UAE
Tel: +971 4 391 5333
Fax: +971 4 391 5335

UK

Chloride Power Protection
George Curl Way
Southampton
SO18 2RY
UK
Tel: +44 (0) 23 8061 0311
Fax: +44 (0) 23 8061 0852

USA

Chloride Power Protection
27944 North Bradley Road
Libertyville
IL 60048
USA
Tel: + 1 847 816 6000
Fax: + 1 847 549 7919

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CHLORIDE
INDUSTRIAL SYSTEMS

Chloride Industrial Systems
30 avenue Montgolfier - BP 90
69684 Chassieu cedex - France
Tel.: +33 (0)4 78 40 13 56
Fax: +33 (0)4 78 90 58 90

www.chloridepower.com
industrial.sales@chloridepower.com
industrial.support@chloridepower.com



EXOND DC/AC 2.5 - 30 kVA

The Range

The Exond 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 30kVA in 1-phase output.

Flexibility for customized solutions

Exond is fully adaptable to the diverse needs of electrical loads and of their operation conditions: a wide range of options is available to provide tailored industrial solutions:

- AC distribution board,
- redundant ventilation,
- parallel configuration,
- external protection up to IP54...

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.

A renowned technology

The Exond range is equipped with the latest generation of IGBT Trench power transistors. The output voltage regulation is ensured by using the Pulse Width Modulation (PWM).

These reliable and efficient technologies have been experienced for several years by Chloride; they ensure a high quality sinusoidal output voltage.

Galvanic isolation between DC and AC circuits is ensured thanks to the output isolating transformer.

Reliability and accessibility

Exond is a seal of reliability for your mission critical industrial loads. Its design is the result of Chloride's long experience in harsh industrial applications. The resulting benefits are:

- system lifetime of at least 20 years in continuous operation conditions,
- robust mechanical design (vertical and horizontal acceleration stress up to 0,2g),
- increased clearance capacity to eliminate short-circuit downstream the inverter (short-circuit withstanding of 250% of nominal rating).
- front access to every component, reducing MTTR and easing maintenance operations.

Communication



With the Exond range, the user visualises all the necessary information from the front face of the equipment.

The analogue meters allow quick reading of the measured values.

The LEDs provide the operator with status and active alarms of the equipment, thanks to clear assigned messages.

Several status indicators and alarms can be made available on voltage-free contacts to enable remote monitoring of the system.

Applications

The Exond range delivers a clean and stable single-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...

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

Delegate your power management to the experts.

Technical data

	Rating (kVA)	2,5	5	7,5	10	15	20	30	
1-Phase output									
110 VAC or 220 VAC									110 VDC
									220 VDC
Input									
DC input voltage		110 / 220 VDC							
Input voltage tolerance		-20% / +18%							
Output									
1-phase AC output voltage		110 / 120 / 220 / 230 / 240 VAC							
Output frequency		50 Hz (60 Hz)							
Frequency response		1 Hz / sec							
Frequency stability:									
• with own oscillator									± 0,05%
• with Mains synchronisation									± 1,5% (adjustable to ± 0,75% ; 3% ; 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%-0 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 without derating							
General data									
Operating temperature		0 to 40°C							
Relative humidity		< 95% non condensing							
Operating altitude		1000m (without derating)							
Cooling		Natural, Fan-assisted, Turbine-forced according to ratings							
External protection		IP20 as standard (other upon request)							
Fermeture		Steel locked door							
Finition		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 standards available upon demand							
Options									
Inverter		Special input voltage between 48VDC and 600VDC, additional voltage-free contact, inrush current limitation, protection against sudden loss of DC input, AC earth fault alarm...							
Reserve supply System		Reserve transformer, reserve stabilizer, reserve voltage monitoring... Front-face active or passive mimic panel, parallel configurations, AC distribution...							
Mechanical		Top cable entry, special painting, anti-seismic...							