

# Suitable solutions for industry

## Energy reliability in harsh environments





# SOCOMECC Group: a manufacturer at your service



CORPO 331 A

## The guarantee of a specialist

Incorporated in 1922, SOCOMECC is an industrial group with a workforce of 2,300 people.

Our independence allows us to have long-term vision and complete control of any decisions affecting our development.

The company is organised into two independent divisions: SOCOMECC SCP, experts in switching components and protection solutions, and SOCOMECC UPS, specialists in critical system power supply.

The company's standard turnover, operating profit and net profit are all showing steady growth.

These figures allow the company to make prudent yet ambitious plans for the future: plans which guarantee profitability and which also aim to capture new market share, namely by setting up new subsidiaries worldwide.

## Renowned expertise

Having already received the 2004 Award for Customer Service Excellence and the

2006 Award for Product Innovation from Frost & Sullivan, SOCOMECC UPS recently has once again excelled by winning the 2009 Best Practice Award for "European Energy & Power Systems Product Line Strategy". This prestigious accolade was presented in recognition of the company's ability to propose an extensive product range demonstrating the most insight into the needs and product demands of its customers.



GAMME 103 A

SOCOMECC UPS  
UPS from 400 VA to 5400 kVA



RANGE 046 B

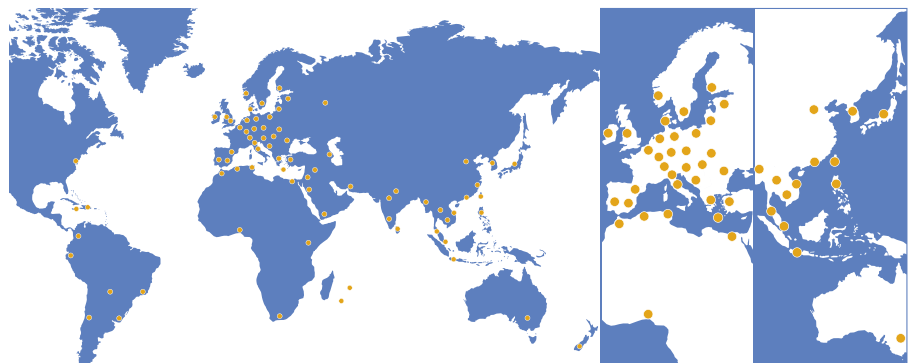
SOCOMECC SCP  
Switching and Protection Systems

## An organisation focused on customer satisfaction

Our equipment is designed and produced to meet ISO 9001:2000 standards. SOCOMECC UPS systems provide you with a fully protected electrical power supply and first-rate service.

## A worldwide presence

With a strong international presence in over 70 countries and subsidiaries in 22 countries, SOCOMECC is a major player in the global market of electrical equipment.

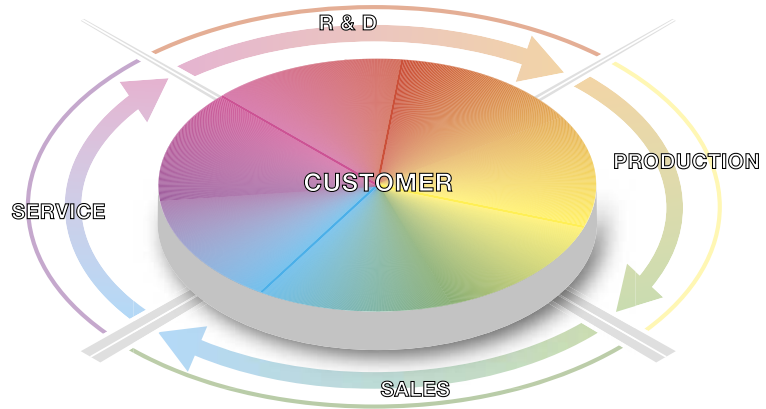


CARTE 043 A

# 360° organization: for a high quality power supply

Marketed under the SOCOMEC UPS trademark, our products and services fulfill all needs for a high quality, continuous electrical power supply. Our UPS, as well as our secure power supplies, static transfer systems, harmonic equalizers, rectifiers and DC/AC and AC/DC converters, comprise the most complete ranges in the world and cover a very wide range of applications for every sector of the market.

With recognized experience as a specialist in industrial power, SOCOMEC UPS provides innovative power solutions to protect typical industrial equipment against electrical power faults which prevent interruptions to production, the loss of data, or even damage to hardware.



## High reliability in harsh industrial environments

- Suitable for harsh operating environment (i.e. presence of conductive dust and dripping waters, exposition to electromagnetic pollution, etc.).
- Enhanced degree of protection up to IP52.
- Robust enclosures and electrical boards with tropicalisation anticorrosion protection.
- True frontal access for input/output cabling, spares replacement and preventative maintenance.

## Easy integration in industrial electrical infrastructures

- Suited for supplying industrial loads (i.e. motors, speed drivers, pumps, sensors, lamps, etc).
- Compatibility with any neutral system arrangements (galvanic isolation).
- High short-circuit current (Icc).
- Wide input voltage tolerance.
- TÜV/Bureau Veritas certified performances.
- Flexible for special customizations.

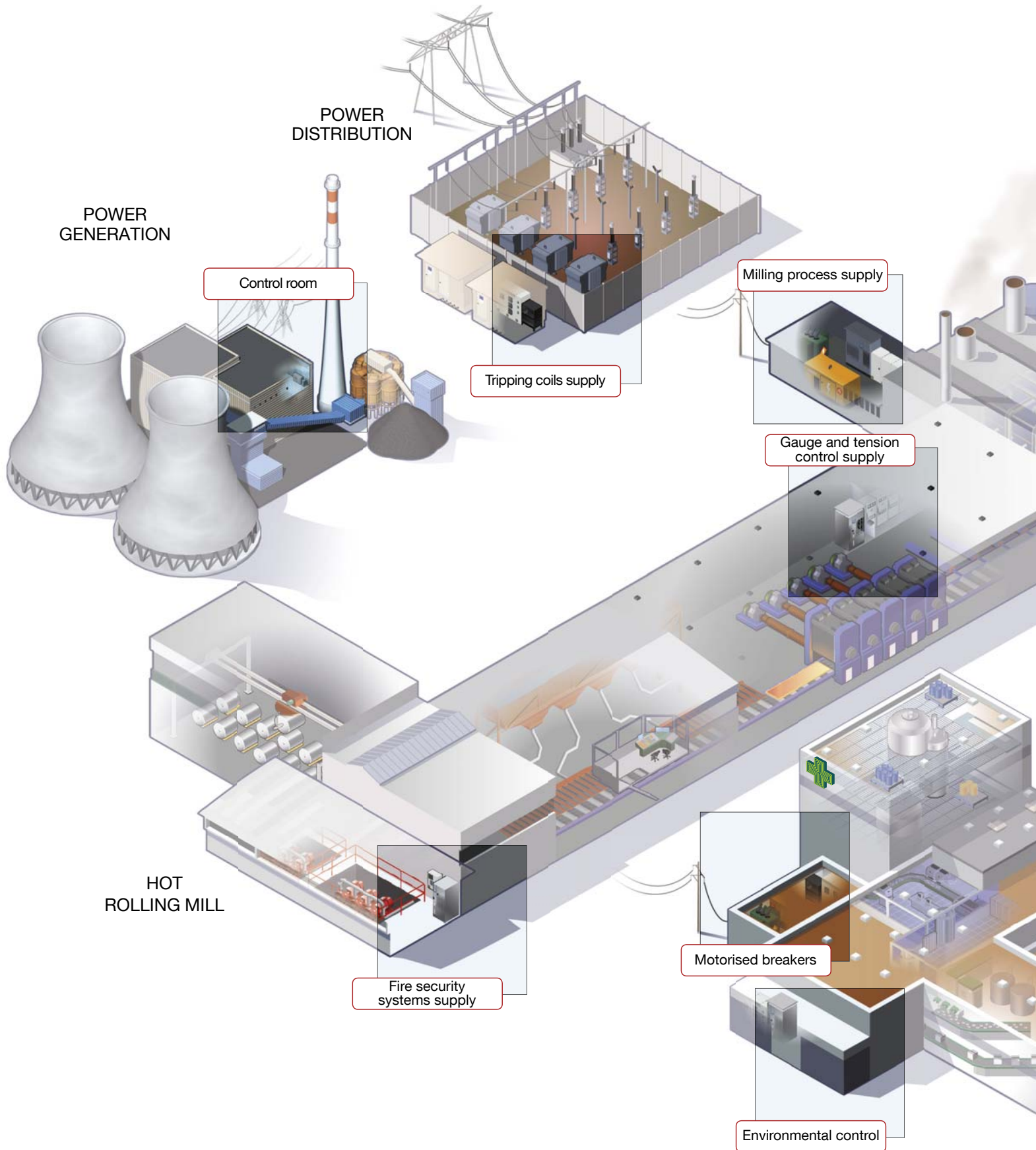
## Communication

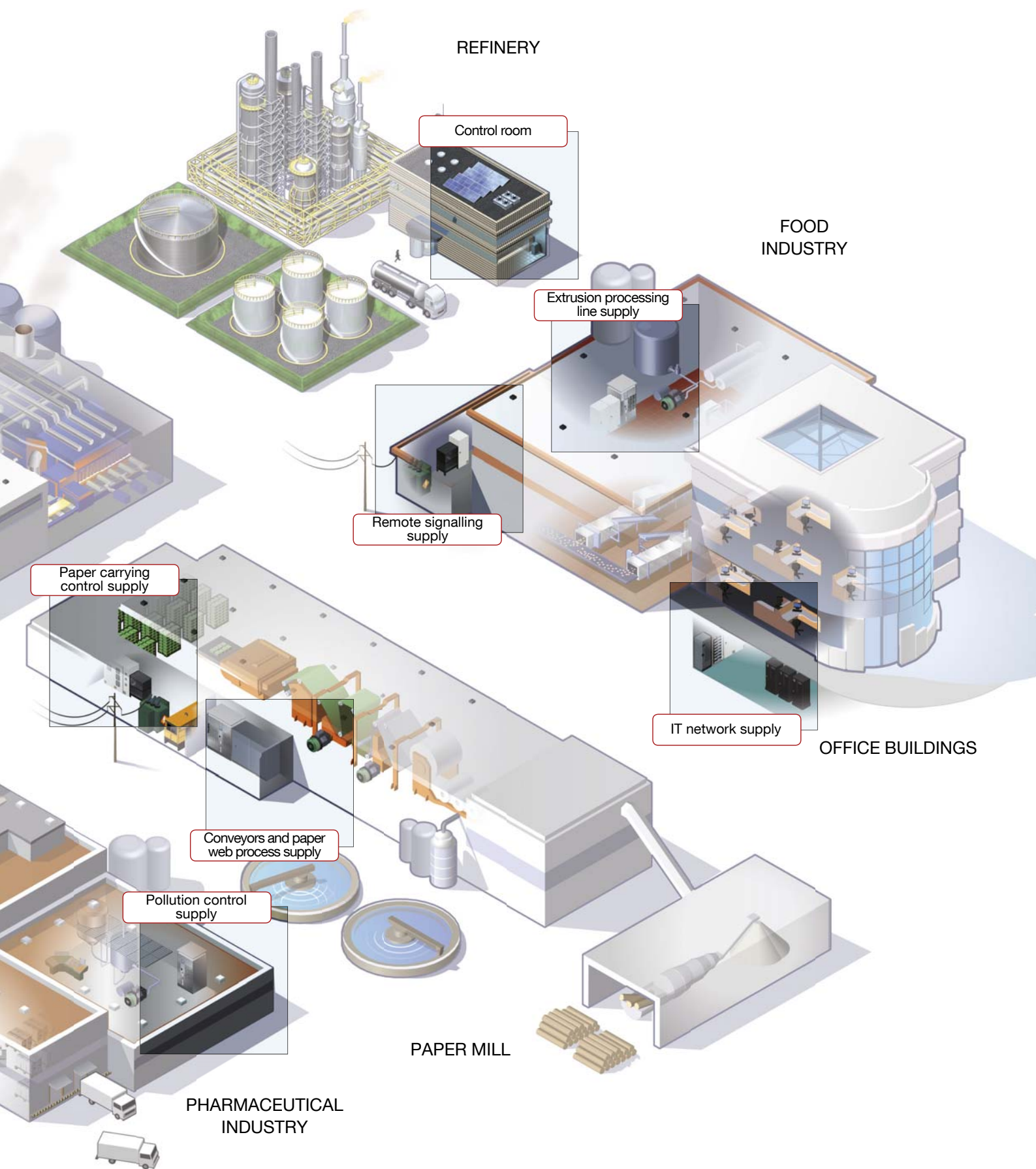
Socomec solutions can communicate using current management protocols via user friendly interfaces: dry contacts, JBus/modbus, Modbus/TCP, Devicenet, Profibus, Ethernet.





# Comprehensive solutions for industrial applications







# Industrial processes and process control

Certain industrial applications call for robust equipment which is able to operate in harsh environments. In contexts such as these, power interruptions cause extremely serious problems, such as lost production, equipment damage and safety.

The use of an UPS system to protect the processes becomes even necessary to guaranty the quality of the production and to avoid related non quality costs.

Socomec, perfectly aware about those aspects because of his industrial profile and his customer proximity, proposes a full range of UPS solutions for industrial applications.

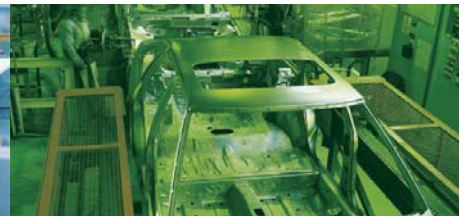
## MASTERYS IP+: 3ph/1ph and 3ph/3ph AC power from 10 to 480 kVA **3 4 6 9 10 11 13**



The MASTERYS IP+ series is certified by TÜV SÜD with regard to product safety (EN 62040-1).

MASTERYS IP+ efficiency is verified by TÜV SÜD.

- Designed specifically for industrial applications, even operating in **harsh environments**.
- Supply and supervision of the processes ensures continuous and repetitive production quality, operator safety and cost optimizations.
- **MASTERYS IP+** guarantees service continuity and safety. His robust and flexible design assures the perfect integration in all industrial environments an electrical networks.
- Suitable for the supply of:
  - PLCs,
  - regulation systems,
  - switches, sensors,
  - supervision devices,
  - speed drives, motors...



## DELPHYS MP: 3ph/3ph AC power from 80 to 1200 kVA **3 4 6 9 10 11 13**



**DELPHYS MP**  
up to 1200 kVA

- Designed specifically for the power supply of processes and control circuits in industrial applications.
- Supply and supervision of the processes ensures continuous and repetitive production quality, operator safety and cost optimizations.
- **DELPHYS MP** guarantees service continuity and safety. His robust design assures the perfect integration in all industrial environments an electrical networks for medium power applications.
- Suitable for the supply of:
  - PLCs,
  - regulation systems,
  - switches, sensors,
  - supervision devices,
  - speed drives, motors...



**DELPHYS MX: 3ph/3ph AC power from 250 to 5400 kVA** **3 9 11**

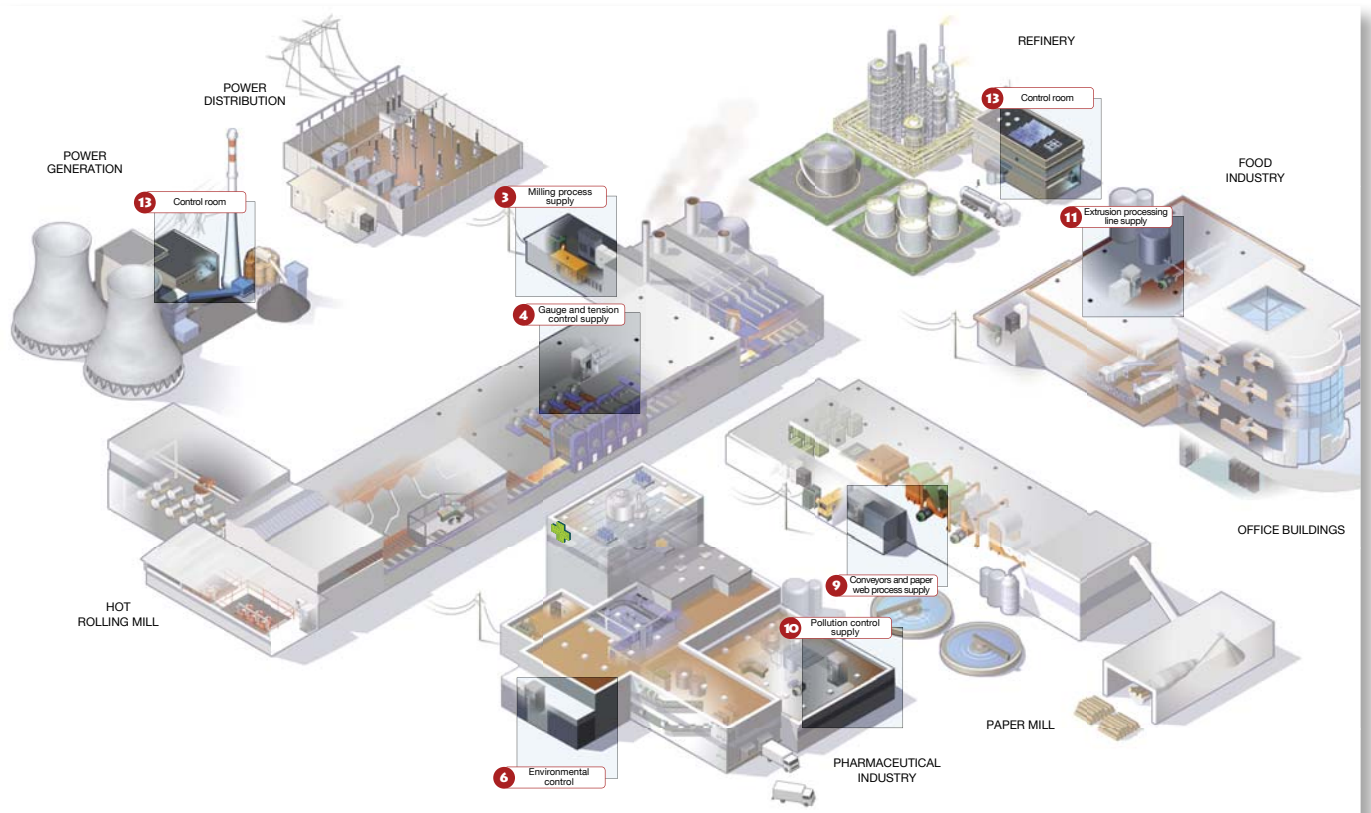


**DELPHYS MX**  
up to 5400 kVA



The **DELPHYS MX** series is attested by Bureau Veritas

- Designed specifically for the power supply of industrial production processes.
- Depending on the application, motors can be supplied directly from the power source or they can be supplied through various type of speed drive systems. In the first case, they are cause and object of high inrush currents and voltage dips. In the second case, the speed drive is generally generating lots of harmonics that the power source will have to manage.
- **DELPHYS MX** connected upstream to the industrial loads protects them against mains voltage disturbances and avoids electric pollution propagation, whilst maintaining low harmonic distortion upstream and warranting high default clearance capability downstream.
- Suitable for the supply of:
  - conveyor belts,
  - pumps,
  - compressors,
  - fans.



# Data processing and back office

## GREEN POWER: AC power from 10 to 200 kVA



GREEN POWER

Designed to protect sensitive professional IT applications. The high efficiency **up to 96%** reduces energy loss and limits the requirement of air conditioning systems. The wide input tolerance and the flexible backup times guarantee a high quality power supply to your server and offices.

Suitable for the supply of:

- industrial networks,
- computer networks,
- LAN/WAN networks,
- servers.



**96%**

The highest efficiency performance on the market

MASTERYS Green Power efficiency is verified by TÜV SÜD.



DELPHYS Green Power series is attested by Bureau Veritas

# Emergency and security

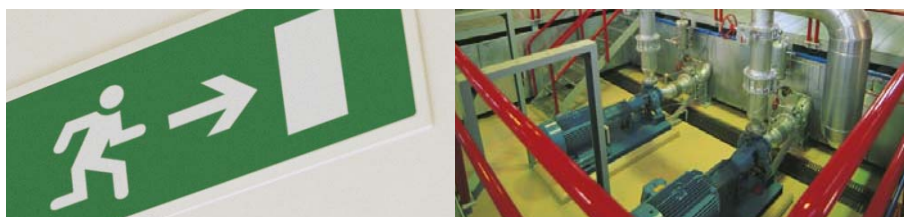
## CPSS *EM*ergency: AC power from 3 to 200 kVA



CPSS *EM*ergency

Centralised Power Supply Systems are designed for buildings subject to fire safety and life protection regulations and are fully compliant with **EN 50171** standard. The CPSS are designed chiefly to supply emergency lighting in the event of a failure in the normal power supply, but can also be used to supply other emergency systems:

- automatic fire extinguishing installations,
- emergency detection and warning units,
- smoke extraction equipment,
- carbon monoxide detection systems,
- specific safety installations in sensitive areas.





# Energy control and monitoring

**SHARYS IP: DC power from 15 to 200 A, 24-48-108-120 V** **1 5 7 8**

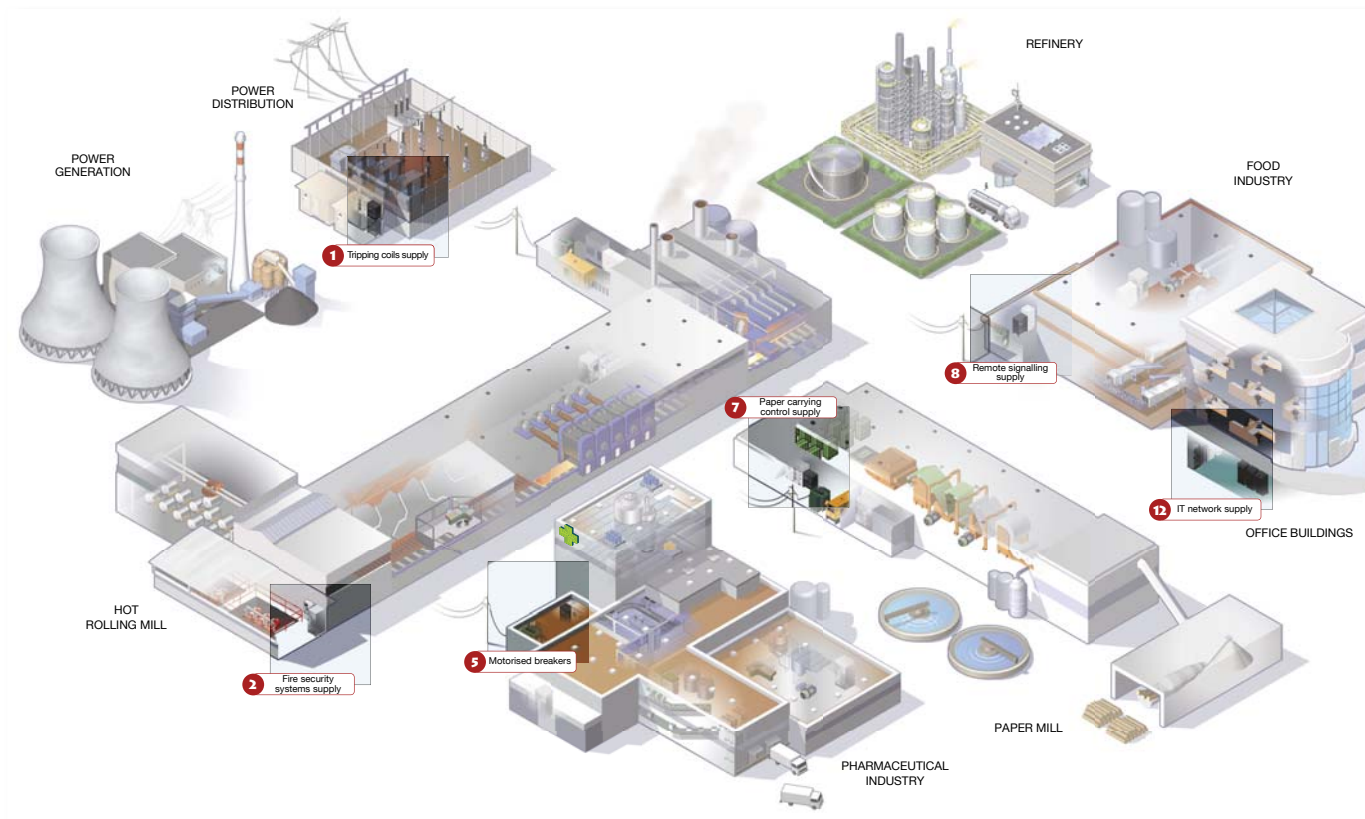


SHARYS IP

Fully adaptable solutions for **harsh environments** requiring **high availability** and effective communication. **SHARYS IP** ensures availability, modularity and unitary input power factor.

Suitable for the supply of:

- tripping coils of MV/LV sub stations,
- signalisation devices,
- sensors,
- PLC,
- generator control,
- communication systems.



# Presales and aftersales service

## The expertise of a single design, construction and maintenance supplier

Since 1968, SOCOMEC has been developing products and services which are geared towards the quality and continuity of your high quality energy.

Our teams provide you with not only an understanding of your needs, but also their expertise in the areas of electronic components, DC circuits, operating logic and industrial IT.

Their attentiveness and advice actively contribute to an optimised definition of requirements and to ensure that all engagements undertaken are fulfilled.

## Commissioning, Inspection and Maintenance provides services for:

- installing equipment,
- preventive maintenance,
- ad-hoc maintenance for breakdowns,
- “around-the-clock” skilled personnel available,
- consultancy, design and implementation of the systems,
- installation management and upgrades.

## Service for disaster recovery

SOCOMECS UPS maintenance service provides effective protection for your installation and assures the continuing high availability of the UPS.

However, it is very difficult preventing a natural disaster, such as flood, fire, smog, etc., but it is possible to take the necessary precautions.

Such as SOCOMEC UPS Maintenance recovery Programme options dedicated to suit the needs of Data Center facilities.

## T.Service

- 24/7/365 monitoring.
- Preventative and early fault detection.
- Reduced human dependence.
- Periodic status reports.
- Automatic intervention of manufacturer service personal.
- Remote assistance of skilled engineers.
- In-depth knowledge of the plant.

## Thermography

- Non-invasive technique to scan the plant via infrared camera.
- Due to its highly effective diagnostic of cable connections and clamps (not possible using conventional visual checks) it highlights areas of concern, allowing proactive prevention of possible issues.
- Focuses on cost reduction.
- Seamless checking carried out without downtime requirements.

## Power Quality Audit

- Complete analysis of the electrical plant addressing site reliability, efficiency and safety.
- It provides a complete view of the correct operating state of the electrical plant.

## Rental service

- Availability of UPS renting fleet.
- In case of unforeseen natural disaster, it ensures a high-quality temporary power solution in the waiting of the full restore of your equipment.
- Includes everything, from operation and maintenance to removal at the end of the rental period.





# Our commitment to **Absolute Green** For maximum **availability** and true cost **savings**

Recent technology developments have seen the emergence of loads which are able to operate despite of very minor power interruptions.

As a result, there is a growing opinion supporting the use of true on-line UPS systems in line-interactive or even off-line mode, without exploiting their maximum level of protection (on-line mode) pushed by the fact that the first two have less energy consumption compared to true on-line.

In fact, even in countries with the best power quality, high-quality power supplies are frequently compromised by consumer loads within the system

itself, such as harmonics, flicker, frequency variations, power cuts and surges. **It is important to remember that the primary aim of mission-critical services is to ensure business continuity, which is only possible if the UPS operates in true on-line mode.**

The essential questions are: is it affordable to compromise your business continuity protection, only thinking on money saving (off-line mode)? and, does it make sense to choose the leading protection technology (on-line) if you don't always take full advantage of it? We consider that true on-line

technology is the only one which is able to provide the maximum availability with a total protection against surges, transients and electrical impurities to and from the power supply.

Socomec UPS is able to ensure true cost saving without compromise: our UPS range have been independently certified to have the highest efficiency performance on the market, for true on-line double conversion technology, up to 96%, keeping your business totally protected.



## ABSOLUTE GREEN

**AVAILABILITY & SAVING**

### Availability

- The system is supplied with top-quality electrical power, minimising the risk of downtime
- Protection is ensured by the use of on-line double conversion UPS, the most reliable technology on the market
- The system is fully safeguarded against blackouts and any disturbance caused by the mains power supply and by distorting loads

### Saving

- UPS energy costs cut by up to 40%
- The saving is guaranteed by the highest available efficiency performance for on-line double conversion UPS on the market, certified up to 96%
- Optimising the power supply to the system makes it possible to reduce the use of non-recyclable materials and cut CO<sub>2</sub> emissions



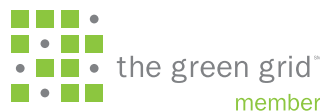
### Global Compact

Since 2003, SOCOMEC group joined the United Nations "Global compact", initiative that aims to tackle the social and environmental challenge of globalization.



### ISO 14001

This internationally recognised standard make a self-determination of SOCOMEC UPS environmental management system.



### The Green Grid<sup>SM</sup> membership

The Green Grid is an association working with IT professionals to dramatically improve energy efficiencies for data centres.



### European Code of Conduct (CoC) Endorser

Being Endorser on European Code of Conduct on Data Centres, SOCOMEC UPS commits to implement energy efficient solutions in new data centres whilst respecting the life cycle cost effectiveness and the performance availability of the system.



# Socomec UPS worldwide

IN WESTERN EUROPE

## BELGIUM

Schaatsstraat, 30 rue du Patinage  
B - 1190 Bruxelles  
Tel. +32 (0)2 340 02 34  
info.ups.be@socomec.com

## FRANCE

95, rue Pierre Grange  
F - 94132 Fontenay-sous-Bois Cedex  
Tel. +33 (0)1 45 14 63 90  
dcm.ups.fr@socomec.com

## GERMANY

Heppenheimer Straße 57  
D - 68309 Mannheim  
Tel. +49 (0) 621 71 68 40  
info.ups.de@socomec.com

## ITALY

Via Leone Tolstoj, 73 - Zivido  
20098 San Giuliano Milanese (MI)  
Tel. +39 02 98 242 942  
info.ups.it@socomec.com

## PORTUGAL

Núcleo Empresarial de Mafra II  
Av. Dr. Francisco Sá Carneiro, Fracção N  
2640-486 Mafra  
Tel. +351 261 812 599  
info.ups.pt@socomec.com

## SPAIN

C/Nord, 22 Pol. Ind. Buvisa  
E - 08329 Teià (Barcelona)  
Tel. +34 935 407 575  
info.ups.sib@socomec.com

## THE NETHERLANDS

Duwboot 13  
NL - 3991 CD Houten  
Tel. +31 (0)30 760 0911  
info.ups.nl@socomec.com

## UNITED KINGDOM

Units 7A-9A Lakeside Business Park  
Broadway Lane - South Cerney  
Cirencester - GL7 5XL  
Tel. +44 (0)1285 863300  
info.ups.uk@socomec.com

## OTHER COUNTRIES

Tel. +34 935 407 575  
info.ups.europe@socomec.com

IN EASTERN EUROPE,  
MIDDLE EAST, AFRICA

## POLAND

ul. Mickiewicza 63  
01-625 Warszawa  
Tel. +48 22 825 73 60  
info.ups.pl@socomec.com

## ROMANIA

Heliade Intre Vii Street no.8, 2 District  
023383 Bucharest  
Tel. +40 21 319 36 88 ( 89, 81, 82)  
info.ups.ro@socomec.com

## RUSSIA

4th Street 8 Marta, 6A, 405  
125167 - Moscow  
Tel. +7 495 775 19 85  
info.ups.ru@socomec.com

## SLOVENIA

Savlje 89  
SI - 1000 Ljubljana  
Tel. +386 1 5807 860  
info.ups.si@socomec.com

## TURKEY

Masuklar Yokusu No:57/2  
34357 Besiktas  
Istanbul  
Tel. +90 212 2580810  
info.ups.tr@socomec.com

## OTHER COUNTRIES

Tel. +39 0444 598 611  
info.ups.emea@socomec.com

IN ASIA PACIFIC

## AUSTRALIA

Unit 3, 2 Eden Park Drive (Rydecorp)  
Macquarie Park NSW 2113  
Tel. +61 2 9325 3900  
info.ups.au@socomec.com

## CHINA

Universal Business Park  
B33, 3rd Fl, 10 Jiuxianqiao Rd.,  
Chaoyang, Beijing 100016 P.R., China  
Tel. +86 10 59756108  
info.ups.cn@socomec.com

## INDIA

B1, 11nd Floor, Thiru-Vi-Ka-Industrial Estate  
Guindy  
Chennai - 600 032  
Tel. +91 44 3921 5400  
info.ups.in@socomec.com

## MALAYSIA

31 Jalan SS 25/41- Mayang Industrial Park  
47301 Petaling Jaya.- Selangor, Malaysia  
Tel. +603 7804 1153  
info.ups.my@socomec.com

## SINGAPORE

31 Ubi Road 1, Aztech Building  
# 01-00 (Annex) - SG - Singapore 408694  
Tel. +65 6745 7555  
info.ups.sg@socomec.com

## THAILAND

No.9 Soi Vibhavadirangsit 42  
Vibhavadirangsit Rd, Ladyao  
Chatujak Bangkok 10900  
Tel. +66 2 941-1644-7  
info.ups.th@socomec.com

## VIETNAM

539/23 Luy Ban Bich St.,  
Phu Thanh Ward, Tan Phu Dist  
Ho Chi Minh City  
Tel. +84-839734.990  
info.ups.vn@socomec.com

## ASIA PACIFIC HEAD OFFICE

Tel. +65 6507 9770  
info.ups.apac@socomec.com

IN AMERICA

## LATIN AMERICAN COUNTRIES

Tel. +34 935 407 575  
info.ups.sib@socomec.com

## HEAD OFFICE

### SOCOMECC GROUP

S.A. SOCOMECC capital 11 149 200 € - R.C.S. Strasbourg B 548 500 149  
B.P. 60010 - 1, rue de Westhouse - F-67235 Benfeld Cedex

### SOCOMECC UPS Strasbourg

11, route de Strasbourg - B.P. 10050 - F-67235 Huttenheim Cedex- FRANCE  
Tel. +33 (0)3 88 57 45 45 - Fax +33 (0)3 88 74 07 90  
admin.ups.fr@socomec.com

### SOCOMECC UPS Isola Vicentina

Via Sila, 1/3 - I - 36033 Isola Vicentina (VI) - ITALY  
Tel. +39 0444 598611 - Fax +39 0444 598622  
hr.ups.it@socomec.com

## SALES, MARKETING AND SERVICE MANAGEMENT

### SOCOMECC UPS Paris

95, rue Pierre Grange  
F-94132 Fontenay-sous-Bois Cedex - FRANCE  
Tel. +33 (0)1 45 14 63 90 - Fax +33 (0)1 48 77 31 12  
dcm.ups.fr@socomec.com

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