

## **DELPHYS XL** High power UPS 1000 and 1200 kVA / kW



Discover all our solutions for Data Centres bit.ly/DatacentreEN



When energy matters



## Let's partner to ensure the availability and energy performance of your Data Centre

## From concept to commissioning - and beyond - Socomec has the expertise to guarantee the performance of your electrical installations.

By delivering the most innovative solutions matched to your precise requirements – with systems that are rightsized for you and easy to scale we ensure the power availability and energy performance of your Data Centre. With an unwavering focus on efficiency and usage, we can help you face rising energy costs by designing and implementing systems that reduce operational expenditure whilst minimising harmful emissions.

Our experts are always close at hand to deliver ongoing preventive maintenance – a vital component when it comes to ensuring availability and guaranteeing the continuity of critical infrastructure. Furthermore, by managing the end-of-life of power assets it is possible to improve availability and operating efficiency – extending the installation's lifetime and reducing your carbon footprint.



4,000 MW

protected by UPS every year within tailor made critical power installations for Data Centres **6.5%** growth in the Data Centre market

**1,000** Static Transfer Switches designed and manufactured every year since 1985

## Iconic products, sustainably renewed

We help our customers to design low voltage electrical facilities that consume less energy, are easier to manage and kinder to the environment by providing UPS with the lowest environmental impact.

#### **Design rules**

Manufacturing sites

Operating

Maintenance

End of life

Up to 20 years lifetime

Minimized logistic carbon footprint Up to 35 tons of C02 emission reduction

Components usage optimization Fewer replacement Responsible recycling management



Socomec is engaged to provide **"Product Environmental Profiles"** for all new products in order to share the environmental impact over their whole life cycle.

## **DELPHYS XL** For outstanding resiliency - that's rightsized

**DELPHYS XL** - a compact and highly efficient UPS - has been specifically engineered to secure the most critical applications, offering inherently superior protection and supporting fast and safe maintenance operations by design. Based on a fully resilient architecture, **DELPHYS XL** provides outstanding resiliency to meet the particular requirements of colocation markets





# Best in class energy management

for maximum savings with certified efficiencies.



designed to fit any Data Centre power distribution architecture.



No single point of failure based on a unique brick concept.



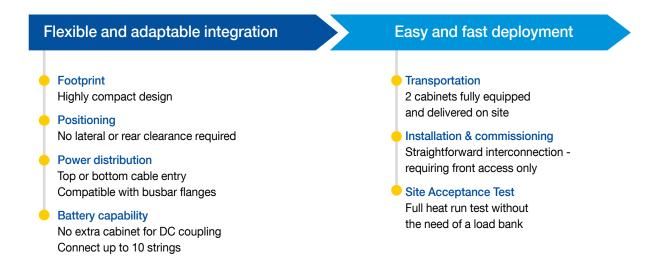
supporting low MTTR with connected services.



DELPHYS XL catalogue page and technical data

# Flexible integration with an optimised footprint

Today's critical infrastructures need to accommodate rapid deployment requirements. Delivering far greater benefits than classic monolithic systems, *DELPHYS XL* packs high power into an overall space-saving design while ensuring that integration within your existing architecture is simple and flexible. Meeting the high power installation space constraints of very critical applications, *DELPHYS XL* has been designed to fit within your Data Centre - whatever your power distribution.



# Up to 70% space saving combined with **Socomec lithium-ion solution**

Ensuring the highest level of availability and reliability while reducing the Total Cost of Ownership, **DELPHYS XL** - combined with the Socomec lithium offer - provides you with an optimised package to meet your installation constraints and free up space for revenue generating equipment.



More space for servers and IT.



Increase reliability and availability thanks to continous battery monitoring.



No battery replacement for up to 15 years even in high cycling conditions.



Sustainable solution with lower environmental impact over the life cycle vs VRLA.



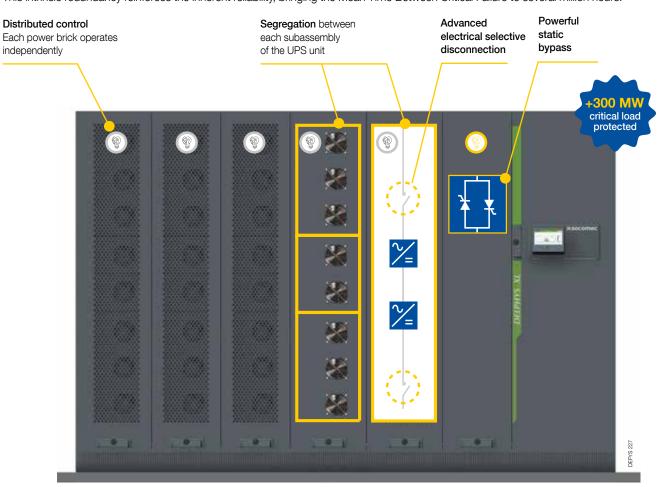
Save CAPEX and OPEX by reducing the cost of cooling.

# **Unmatched resiliency**

to maximise availability

**DELPHYS XL** leverages the strengths and uniqueness of our High Power XL platform - a field-proven control and power electronic architecture providing outstanding resiliency.

Eliminating traditional monolithic UPS single points of failure, *DELPHYS XL* guarantees the highest level of service continuity. *DELPHYS XL* is a fault tolerant UPS system assuming complete redundancy under real-world operating conditions. This intrinsic redundancy reinforces the inherent reliability, bringing the Mean Time Between Critical Failure to several million hours.



## Unique Socomec brick architecture

#### No fault propagation - tested and approved

Advanced electrical selective disconnection per power brick: • Input, output and DC isolation devices (fast fuses and contactors)

#### No single point of failure

Distributed Control between each power brick and the static bypass:

 Independant control board based on peer to peer communication strategy

> "An impressive fault tolerant UPS embedding a native intrinsic redundancy."

Mauro P. Senior electrical design manager

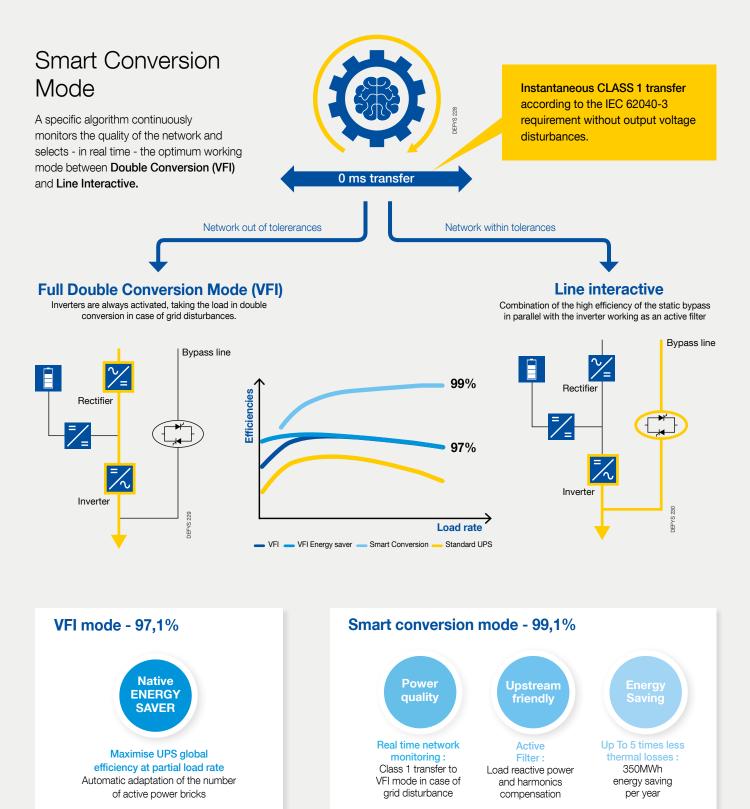


DELPHYS XL guarantees the best selectivity for your critical application by providing the highest clearance capability upon downstream short-circuit thanks to a fuseless static switch architecture.

# **Best in class efficiencies**

for maximum savings

Rising energy costs and a premium on floor space mean that every facility is focused on efficiency and usage in order to help reduce operational expenditure and CO<sub>2</sub> emissions. That's why **DELPHYS XL** combines several advanced working modes to optimise efficiencies within your Data Centre - without sacrificing power quality.



# Easy and safe maintenance

supporting low MTTR

Based on our modular expertise, *DELPHYS XL* has been engineered with ease of servicing and secure maintenance in mind - supporting low MTTR through an innovative and unique service concept.

# Power bricks and static bypass full extractable



- Easy front access subassembly extraction.
- 360° direct access to all components for fast replacement.



- Hands outside servicing without cabling.
- No risk of human error.



• Full power system pre-test to certify the maintenance operation before supplying critical loads.



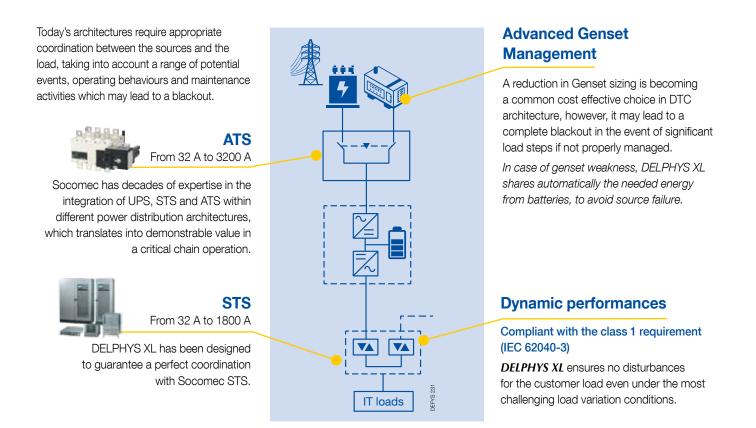
### What's more... ready to use POWER BRICK ON SITE

To deliver a fast MTTR, the deployment of an innovative and unique onsite maintenance station - including a spare power brick - enables recovery from abnormal situations in a limited time once the Socomec expert is on site.

This option is available in any maintenance contract.

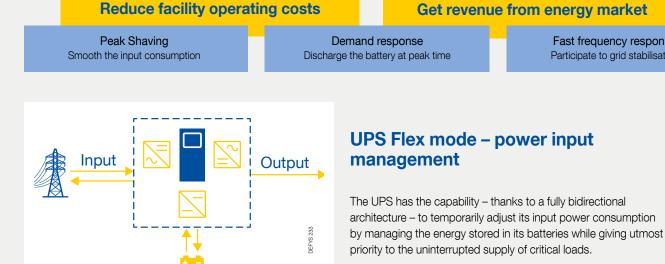
# **Critical chain compatibility**

not only a matter of combining a number of assets



## Socomec Flex'UPS Turn your soution into a financial asset

Socomec goes beyond conventional UPS functionalities, offering fast access to energy sources for optimizing facility energy management and bolstering the electricity grid's resilience to support sustainable energy deployment. DELPHYS XL is able to support access to new revenue streams while maintaining its core mission of protecting critical loads and preserving essential backup time during power outage.



#### Get revenue from energy market

Fast frequency response Participate to grid stabilisation

## **Expert services**

## manufacturer's maintenance for trouble-free UPS operation

Our service contracts are tailored to customer needs, taking into account individual operational constraints, business processes and the unique level of criticality associated with specific applications. Whatever the issue, our internal escalation process gives us access to different levels of expertise to respond as quickly as possible. Our service teams are fully trained and provided with certified equipment in order to deliver the highest levels of expertise.

## How does it work?

#### **SILVER**

The ideal plan for **preventive maintenance**: inspection visits, access to the Socomec office hours hotline (8x5) and response times within 24 hours.

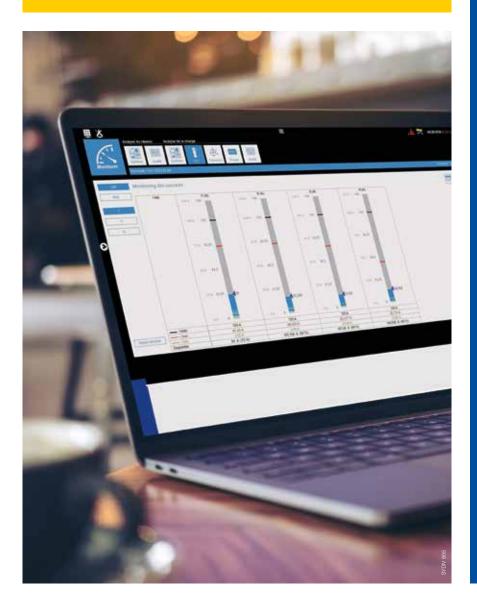
### GOLD

Prevent and cure: this package includes everything from the Silver plan, and also covers the cost of responding to breakdowns.

#### PLATINUM

The PLATINIUM plan includes spare parts. For the most critical applications, the PLATINUM+ plan comes with a 6 hour response time and 24/7 hotline.

## New option: power brick as a spare



## Optimise your experience thanks to connectivity

#### SoLive

UPS monitored anywhere, anytime (cloud)

- Mobile App to monitor the UPS
- Overview of all installed units
- Real-time alarms and notifications
- Dashboard with operating
  parameters

#### SoLink

#### Proactive acknowledgement

- Alarm directly notifies the expert
- Proactive alarm check by the expert
- Expert calls and briefs the end user

#### Remote troubleshooting

#### Remote troubleshooting

- Quick intervention via remote access
- Immediate diagnosis and root cause analysis
- Only one on-site visit is required

## **Technical data**

| General characteristics                               |  |                                 |
|---|--|---------------------------------|
| UPS power rating                                      | 1 000 kVA/kW                                   | 1 200 kVA/kW                    |
| Efficiency in Double Conversion Mode                  | Up to 97.1% - certified by third party (TÜV)   |                                 |
| Efficiency in Smart Conversion Mode                   | Up to 99.1% - certified by third party (TÜV)   |                                 |
| Parallel capability                                   | Up to 4 units                                  |                                 |
| Inputs  |  |                                 |
| Nominal input voltage                                 | 380 / 400 / 415V - 3Ph or 3Ph+N                |                                 |
| Input voltage tolerance*                              | 200 to 480V                                    |                                 |
| Input connection                                      | Common or separated / top or bottom            |                                 |
| Frequency range                                       | 50/60Hz ± 10%                                  |                                 |
| Input power factor / THDi                             | > 0.99 / < 1.5% @ full load                    |                                 |
| Power walk-in on Genset                               | Linear ramp - from 1A/sec to 1000A/sec         |                                 |
| Outputs   |  |                                 |
| Nominal output voltage                                | 400V (380 / 415) 3Ph or 3Ph+N                  |                                 |
| Frequency range                                       | 50/60Hz ± 0.01% (free running)                 |                                 |
| Voltage regulation                                    | ±1% steady state                               |                                 |
| Output voltage distortion (THDv)                      | <1%  |                                 |
| Output voltage performance (load variation 0 - 100%)  | Complies with IEC 62040-3 Class 1 (VFI-SS-111) |                                 |
| Inverter overload capability (under rated conditions) | 110% 1h / 125% 10 min / 150% 1 min             |                                 |
| Bypass overload capability (under rated conditions)   | 110% continuous / 125% 10 min / 150% 1 min     |                                 |
| Inverter short circuit capability                     | up to 3230 A                                   | up to 4090 A                    |
| Bypass short circuit selectivity                      | Fuseless architecture                          |                                 |
| Batteries   |  |                                 |
| Battery type - 2 wires (+/-)                          | VRLA / Lithium-ion                             |                                 |
| Battery voltage range                                 | Up to 700V                                     |                                 |
| Battery connection capability                         | Up to 10 strings (w/o extra cabinet)           |                                 |
| Lithium-ion communication                             | Modbus TCP / dry contact                       |                                 |
| Environment   |  |                                 |
| Operating temperature                                 | 0 - 40°C                                       |                                 |
| Humidity  | 0 - 95% without condensation                   |                                 |
| Air flow  | From front to top                              |                                 |
| Maximum altitude without derating                     | 1000m (3,300 ft)                               |                                 |
| Standard protection rating                            | IP20   |                                 |
| Seismic rating  | Zone 2 / Zone 4 (optional)                     |                                 |
| Frame colour  | RAL 7016                                       |                                 |
| Compliance with standards                             |  |                                 |
| Safety  | IEC/EN 62040-1                                 |                                 |
| EMC   | IEC/EN 62040-2                                 |                                 |
| Performance   | IEC/EN 62040-3                                 |                                 |
| Dimensions and weight                                 |  |                                 |
| UPS dimensions (W x D x H)                            | 2625 x 1000 x 2005                             | 3003 x 1000 x 2005              |
| Weight  | 2585 kg  | 3200 kg                         |
| Clearance   | No rear or lateral clearance f                 | or installation and maintenance |

# For outstanding resiliency that's rightsized...

## ... and for unsurpassed efficiency that's proven.

"Having received the 2022 Global UPS **Customer Value Leadership award** from Frost & Sullivan, as well as being part of Elite UPS, we're raising the bar to create an evolution in Data Centre critical power architecture."



DEFYS 207

Barthelmebs Clément, High Power UPS Product Manager

## Socomec: our innovations supporting your energy performance



- Italy (x2)
- Tunisia
- India
- China (x2)
- USA (x2)
- Canada

- Canada Dubai (United Arab Emirates) France (x2)
- Germany India Indonesia Italy Ivory Coast
- Netherlands 
  Poland 
  Portugal 
  Romania 
  Serbia
- Singapore Slovenia South Africa Spain Sweden
- Switzerland Thailand Tunisia Turkey UK USA

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