

# ***DELPHYS XM***

Peak power density and elevated energy efficiency modular UPS  
300 to 800 kVA/kW



When **energy** matters

# Powering a sustainable and high-efficiency future

With global demand for data reaching unprecedented levels, critical infrastructure is increasingly challenged to deliver **high-capacity, energy-efficient solutions** that keep operational costs low while meeting new environmental targets.

The missions for uninterrupted and more sustainable power should, however, never compromise on reliability. That's why resilient, modular solutions are the foundations of the architecture for critical applications.

## ***DELPHYS XM***

The perfect synergy of power density, energy efficiency, adaptability and resiliency

**DELPHYS XM's** unique blend of capabilities sets it apart not only in terms of being able to meet today's increasing demands but also thanks to its ability to maintain low operational costs.



# Redefining power density

Because industries increasingly implement various technologies, Data Center providers and other critical infrastructure require higher computing densities.



## Best-in-class footprint: up to 1 MW/m<sup>2</sup>

Reducing the footprint by 50% (compared to the average dimensions of UPS on the market) means that **DELPHYS XM** will maximise your operational space. Also perfect for skid mounting or containerised solutions.



## Lithium-Ion battery integration

**DELPHYS XM** has been designed to harness the benefits of LIB technology, resulting in increased system compactness.



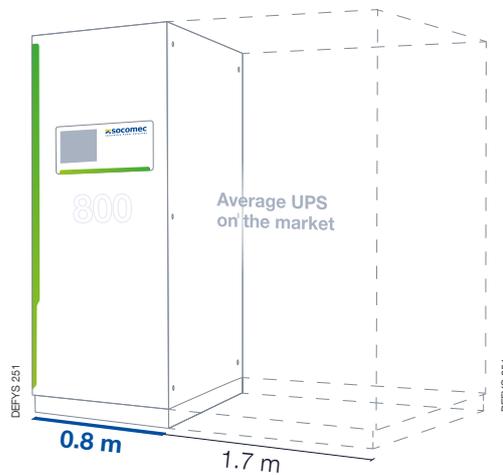
## Achieve more, with less

The **DELPHYS XM** empowers critical applications to optimise power density with a reduced footprint, improving overall space utilisation thanks to high density power modules for future-ready infrastructure.



## 100 kW power module offers superior density

**DELPHYS XM**'s power modules are designed to maximise power output; a 100 kW power module reaches a superior density in just 3U designs.



- + Up to 1 MW/m<sup>2</sup>
- + 50% less footprint
- + 100 kW power module in just 3U

\*scenario for **DELPHYS XM** 800 kVA compared to an average 800 kVA UPS on the market.

# Elevating efficiency for a performant and sustainable future

In a fast-evolving landscape, driving energy efficiency is a critical challenge when it comes to reducing operational costs and meeting new sustainability standards. With a focus on cutting-edge efficiency and reduced carbon footprint, **DELPHYS XM** has been designed to deliver both – and to go even further in terms of supporting future infrastructure evolutions.

 **42 tons** of CO<sub>2</sub> saved\*

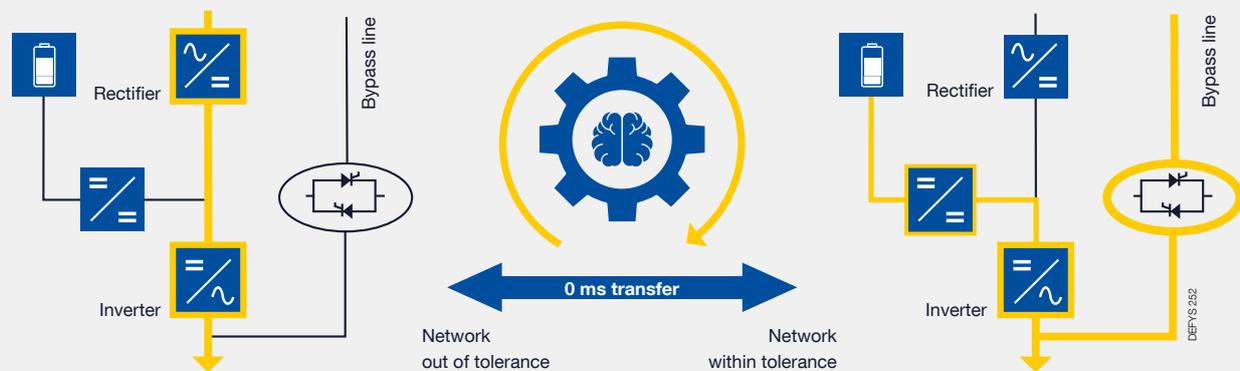
 **99%** in smart conversion mode

 **97.1%** in double conversion mode

## Smart Conversion mode for total control of power availability...

By seamlessly combining the high efficiency of the static bypass with an active inverter, **DELPHYS XM's** Smart Conversion mode means that you're in complete control of availability.

- **DELPHYS XM** always keeps watch over the power quality, automatically selecting the most efficient mode for powering the supply to critical loads.
- **DELPHYS XM** achieves superior levels of efficiency while maintaining stable power quality, even in the face of grid disturbances.



## ... and also reduced energy and cooling needs

**DELPHYS XM's** Smart Conversion mode minimises energy consumption, reduces cooling demands, and lowers CO<sub>2</sub> emissions. This feature ensures optimal efficiency while contributing to a more sustainable and environmentally friendly operation.

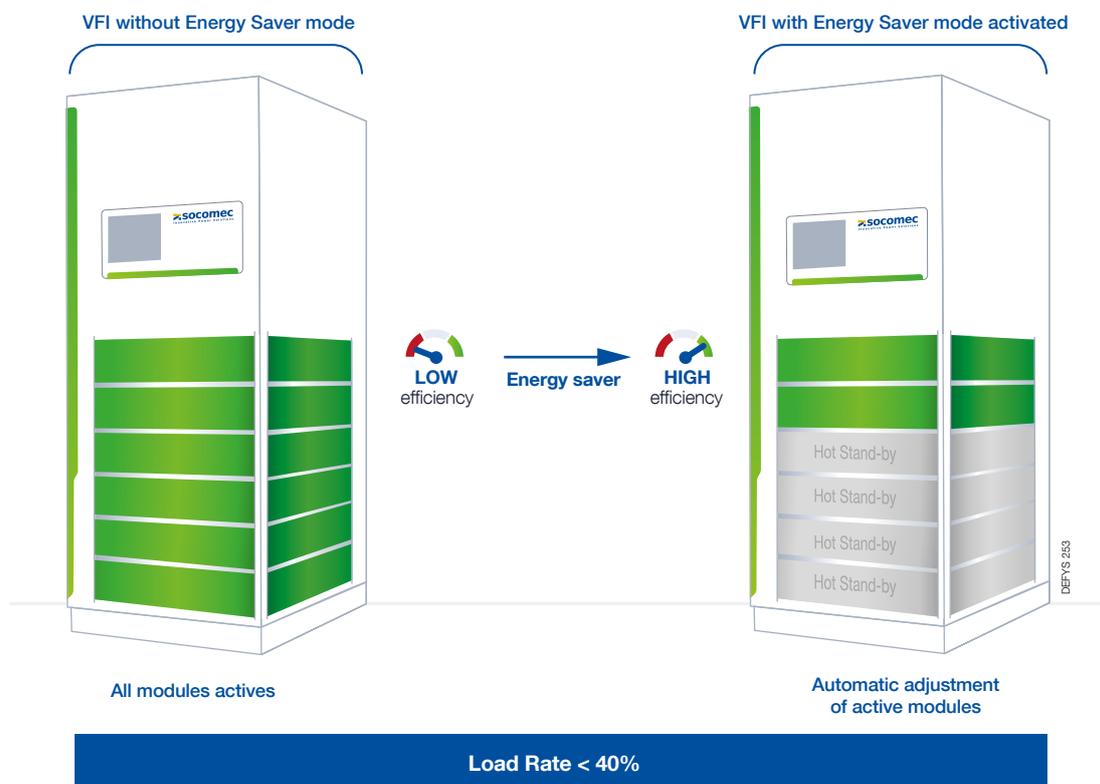
\* **DELPHYS XM** efficiency in Smart Conversion Mode: 42 tons of CO<sub>2</sub> saved considering 50% average load. Yearly values calculated for **DELPHYS XM** 800 kW compared to 97% efficiency UPS.



## Energy Saver Mode: a different way to make energy savings

**DELPHYS XM's** Energy Saver mode intelligently detects when the system is working in low rate (under 40% of load) and places one element on standby. With sustainability in mind, the system periodically alternates the modules that are in sleep mode in order to average the impact of ageing across the modules.

This mode enhances overall efficiency and achieves substantial energy savings - without compromising on performance. This operating principle is illustrated in the example below.



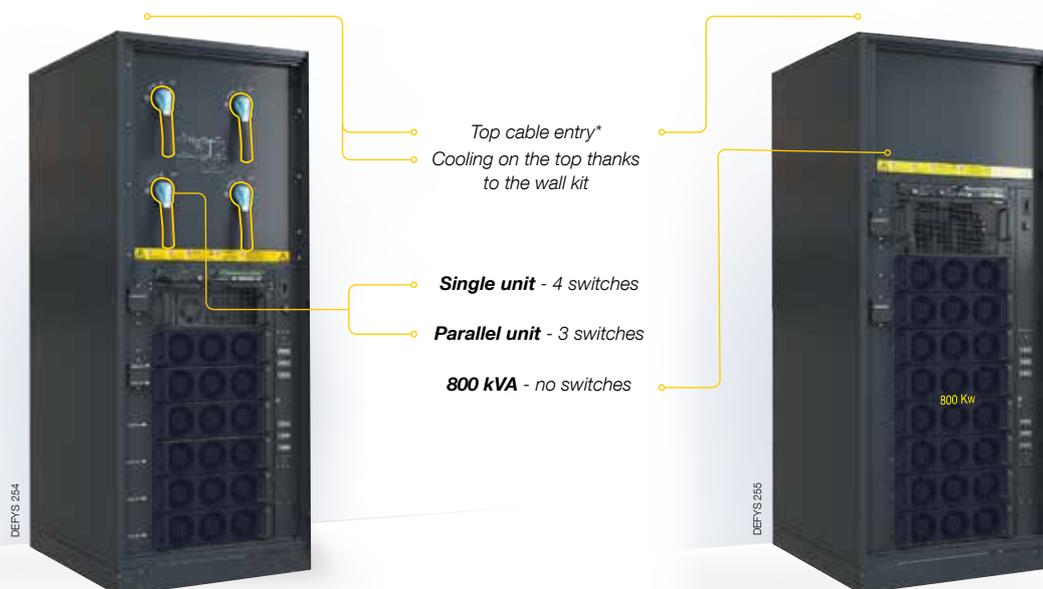
# Best-in-class adaptability for diverse applications

## Adapt with precision, power with flexibility

Data Centers, industrial facilities, buildings and other critical infrastructures demand adaptable power solutions that can meet several requirements. That's why **DELPHYS XM** has been designed with flexibility in mind and with unparalleled adaptability.

## Cooling and cabling configurations

**DELPHYS XM** offers multiple options, including top or bottom cable entry and common or separate connections, making it ideal for multiple installation requirements.



**DELPHYS XM**  
**300 to 600 kVA**  
(standalone cabinet)

**DELPHYS XM**  
**800 kVA**  
(standalone cabinet)

\*Bottom entry also available

## Extensive battery flexibility

- **Flexible battery compatibility:** supports both lithium-ion and VRLA batteries.
- **High performance:** fast recharge and backup times, with a recharge capacity up to 100A per power module.
- **Wide voltage range:** ensures compatibility with different battery configurations and technologies, for the ultimate flexibility.

### Even more savings with lithium-ion batteries



**High working T°**  
Save CAPEX and OPEX by reducing the cost of cooling.



**Optimised footprint**  
More space for servers and IT.



**Eco-friendly**  
Sustainable solution with lower environmental impact over the life circle vs VRLA.

## Pre-designed UPS solution

- **Pre-engineered, integrated solution** that even includes switches and components for fast and efficient installation.

# Ensuring continuous uptime

Significant vulnerabilities in critical infrastructure highlight the urgent need for robust and resilient systems capable of preventing the impact of outages.

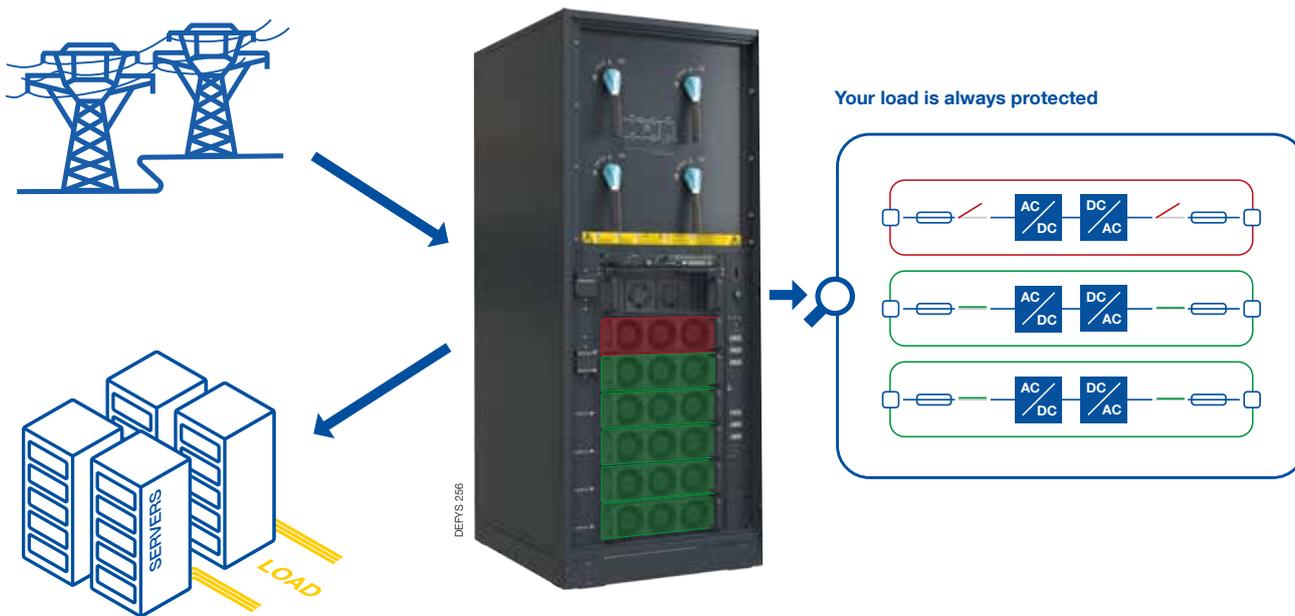
## Modular design that enable resiliency

**DELPHYS XM** is designed to ensure continuous power.

- 100 kW power modules.
- **Advanced fault segregation:** internal contactors and rapid-acting fuses on both AC and DC sides protect

the entire installation, maintaining stability and resilience even in the event of a module failure.

- **Built-in redundancy:** supports up to 100% redundancy in «N+1» configurations.



## Robustness is paramount

Key components, such as the PCB, are treated with a conformal coating to prevent oxidation.

The fully-rated static bypass module adds an extra layer of reliability, designed to handle abnormal load conditions and adapt to unexpected demands.

# Serviceability and proactivity at the core

By enhancing operational efficiency and promoting a sustainable approach, SOCOMEC's UPS systems not only remain resilient but will thrive in an ever-evolving landscape. **DELPHYS XM** embodies this vision at every level of its design.



## Easy to operate

- 10" HMI touch screen to simplify monitoring.
- Green/yellow/red LED lights to provide clear status visibility from a distance.



## Easy to maintain

- Hot-swappable 100 kW power modules for fast and straightforward maintenance tasks
- Withdrawable static bypass is easy to maintain

DELPHYS 257



## Easy to anticipate

**DELPHYS XM** goes beyond traditional service models by integrating both proactive and reactive support. Its maintenance approach includes remote troubleshooting capabilities, reducing the need for on-site visits and ensuring faster resolution of any potential issues.

**This allows for optimal operation without disruptions, minimizing downtime and ensuring the system availability.**

# 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 critically 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 labour and travel costs when responding to breakdowns.

#### PLATINIUM

The PLATINIUM plan includes spare parts, labour and travel. For the most critical applications, optional 24/7 hotline and up to 4 hours on site response time are available.



**Remote troubleshooting:** problem solving securely



Optimise your experience thanks to connectivity

#### SoLive

**UPS monitored instantly, anytime (cloud)**

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

#### SoLink

**Proactive acknowledgements**

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

#### Remote troubleshooting

**Remote troubleshooting**

- Rapid intervention through temporary and secure access
- Immediate diagnosis and root cause analysis
- Only one on-site visit is required

# Technical data

| UPS MODEL  |                     | 300   | 400 | 500 | 600 | 800                |
|--|---------------------|---|-----|-----|-----|--------------------|
| Number of 100 kW power conversion modules            |                     | 3   | 4   | 5   | 6   | 8                  |
| Rated Power  | (N config)          | 300   | 400 | 500 | 600 | 800                |
|  | (N+1 configuration) | 200   | 300 | 400 | 500 | 700                |
| Efficiency in Double Conversion Mode (VFI)           |                     | up to 97.1%   |     |     |     |                    |
| Efficiency in Smart Conversion Mode                  |                     | up to 99%   |     |     |     |                    |
| Parallel capability                                  |                     | up to 6 units   |     |     |     | up to 4 units      |
| <b>INPUTS</b>  |                     |   |     |     |     |                    |
| Nominal input voltage                                |                     | 380/400/415 V (3ph+N+PE)  |     |     |     |                    |
| Input voltage tolerance <sup>(1)</sup>               |                     | 140 to 485 V  |     |     |     |                    |
| Input connection                                     |                     | common or separated / top or bottom <sup>(2)</sup>                |     |     |     |                    |
| Frequency range                                      |                     | 50/60 Hz  |     |     |     |                    |
| Input power factor / THDi                            |                     | > 0.99 / < 3% @ full load   |     |     |     |                    |
| <b>OUTPUT</b>  |                     |   |     |     |     |                    |
| Nominal output voltage                               |                     | 380/400/415 V configurable / (3ph+N)                              |     |     |     |                    |
| Frequency range                                      |                     | 50/60 Hz ±0.02 Hz   |     |     |     |                    |
| Voltage regulation                                   |                     | static load ±1%   |     |     |     |                    |
| Output voltage distortion (THDv)                     |                     | ≤1.5% with rated linear load                                      |     |     |     |                    |
| Output voltage performance (load variation 0 - 100%) |                     | complies with IEC 62040-3 Class 1 (VFI-SS-111)                    |     |     |     |                    |
| Inverter overload capability                         |                     | 125% 10 min / 150% 1 min  |     |     |     |                    |
| Bypass overload capability                           |                     | 110% permanent / 125% 10 min                                      |     |     |     |                    |
| <b>BATTERIES</b>                                     |                     |   |     |     |     |                    |
| Battery type   |                     | 2 wires, VRLA/Lithium-ion   |     |     |     |                    |
| Battery connection capability                        |                     | 40-50 Lead battery blocks without derating                        |     |     |     |                    |
| Battery charge current capacity - per module         |                     | configurable up to 30 A without UPS power derating <sup>(3)</sup> |     |     |     |                    |
| <b>ENVIRONMENT</b>                                   |                     |   |     |     |     |                    |
| Operating temperature                                |                     | 0-40 °C   |     |     |     |                    |
| Humidity   |                     | 0-95% without condensation  |     |     |     |                    |
| Air flow   |                     | from front to rear in STD, from front to top with WALL KIT        |     |     |     | from front to rear |
| Maximum altitude without derating                    |                     | 1,500 m (4,900 ft)  |     |     |     |                    |
| Standard protection rating                           |                     | IP20  |     |     |     |                    |
| Frame colour   |                     | RAL 7016  |     |     |     |                    |
| <b>DIMENSIONS AND WEIGHT</b>                         |                     |   |     |     |     |                    |
| UPS dimensions (W x D x H) <sup>(2)</sup> [mm]       |                     | 800 x 1000 x 2000   |     |     |     |                    |
| Weight [kg]  |                     | 515   | 565 | 650 | 730 | 900                |
| Clearance  | Standard            | no rear or lateral clearance for installation and maintenance     |     |     |     |                    |
|  |                     | 500 mm at 40 °C or 300 mm at 35 °C rear clearance for air flow    |     |     |     |                    |
|  | Optional            | no rear clearance (top air outlet kit)                            |     |     |     | NA                 |

(1) Condition apply.

(2) Size for standard unit with top cable entry.

(3) Up to 100 A at 50% load.

# Socomec: our innovations supporting your energy performance

**1** independent manufacturer

**4,400** employees  
worldwide

**8** % of sales revenue  
dedicated to R&D

**400** experts  
dedicated to service provision

## Your power management expert



POWER  
SWITCHING



POWER  
MONITORING



POWER  
CONVERSION



ENERGY  
STORAGE



EXPERT  
SERVICES

## The specialist for critical applications

- Control, command of LV facilities
- Safety of persons and assets
- Measurement of electrical parameters
- Energy management
- Energy quality
- Energy availability
- Energy storage
- Prevention and repairs
- Measurement and analysis
- Optimisation
- Consultancy, commissioning and training

## A worldwide presence

**12** production sites

- France (x3)
- Italy (x2)
- Tunisia
- India
- China (x2)
- USA (x2)
- Canada

**30** subsidiaries and commercial locations

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

**80** countries

where our brand is distributed

### HEAD OFFICE

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