

# DELPHYS XM

High power density and superior efficiency UPS  
300 to 800 kVA/kW

Superior



DELPHYS\_XM.PNG



Energy efficient

## The solution for

- > Data centers
- > Building
- > Industry – light environment
- > Infrastructure

## Strong points

- > Elevating efficiency: sustainable by nature, designed for performance
- > Redefining power density
- > Best in class adaptability for multiple applications
- > Ensuring proactive and easy maintenance
- > Guaranteeing uptime with superior resiliency

## Conformity to standards

- > EN/IEC 62040-1
- > EN/IEC 62040-2
- > EN/IEC 62040-3

## Advantages

DELPHYS XM efficiency in Smart Conversion Mode



42 tons of CO<sub>2</sub> saved considering 50% average load <sup>(1)</sup>

1. Yearly values calculated for DELPHYS XM 800 kW compared to 97% efficiency UPS.

## Expert services

Guarantee proactive maintenance and maximum uptime without compromises with built-in connected services such as:

- > Data collect and storage
- > Live monitoring
- > Expert monitoring 24/7
- > Remote diagnostic & troubleshooting



## Function

DELPHYS XM is a high-efficiency UPS designed with cutting-edge technology to reduce Total Cost of Ownership (TCO). Its ultra-compact footprint, combined with energy efficiency, adaptability, and modular design, creates a perfect synergy that maximises overall performance and benefits.

## Advantages

### Elevating efficiency: sustainable by nature, designed for performance

High UPS efficiency ratings enabling reduced energy consumption, cooling requirements and CO<sub>2</sub> emissions:

- Up to 99% thanks to Smart Conversion Mode to transfer from line interactive to double conversion mode in 0 ms.
- Up to 97,1% in online double conversion (VFI).
- Energy Saver Mode to maximise the efficiency under low load conditions.

High service efficiency: sustainability performance is further enhanced by digital services, making operations even more efficient and helping to reduce your carbon footprint.

### Ensuring proactive and easy maintenance

Optimised maintenance MTTR (Mean Time to Repair) thanks to:

- Upgraded UPS and services connectivity for advanced monitoring and reactive maintenance.
- User-friendly 10" HMI – easy to operate.
- Full front access and hot-swappable 100 kW modules – easy to maintain.
- No need to access the inside of the UPS – all maintenance can be performed without any cabling work.

### Redefining power density

- DELPHYS XM delivers up to 800 kW in just 0.8m<sup>2</sup>, setting a new industry standard.
- Optimised operational footprint: no lateral/rear space required with a dedicated cooling kit.

### Best in class adaptability for multiple applications

From ordering to commissioning, DELPHYS XM ensures perfect integration:

- Standardised design and wide range of standard options.
- Lead & Lithium battery compatibility with wide operating voltage range.
- Versatile integration: top or bottom cable entry, common or separated.
- Conformal-coated electronics and IP rating to adapt to site environment.

### Guaranteeing uptime with superior resiliency

Designed to eliminate any single point of failure:

- Modular design based on 100 kW modules engineered to avoid fault propagation.
- Intrinsic redundancy (N or N+1) to ensure high protection level under abnormal event.
- Robust and full rated static bypass to sustain abnormal load conditions.

## Standard Electrical features

- Smart conversion mode.
- Energy saver mode.
- Separated or common input mains.
- Top entry connection.
- Withdrawable static bypass.
- Inputs and output switches for single and parallel units (300-600 kVA).
- Maintenance bypass switch for single unit (300-600 kVA).
- TNS grounding system.
- Backfeed protection: detection circuit.
- Conformal-coated PCBs.
- UPS Heat-run mode.
- Cold start.

## Electrical options

- Bottom entry connection (side cabinet).
- Kit for top air outlet.
- PEN kit for TN-C grounding system.
- ACS synchronization between two DELPHYS XM systems.
- Battery temperature sensor for lead batteries.

## Standard communication features

- User-friendly 10" touch-screen multilingual color graphic display.
- 3 COM slots for communication optional card.
- Ethernet port for service purpose.

## Communication options

- +3 COM slots extension kit.
- Dry-contact interface (configurable voltage-free contacts).
- MODBUS RTU RS485 or TCP.
- NET VISION: professional WEB/ SNMP Ethernet interface for secure UPS monitoring and remote automatic shutdown.
- NET VISION EMD: Environment Temperature and Humidity sensor with 2 inputs.
- Remote View Pro supervision software.

## Technical data

| UPS MODEL  | 300  | 400   | 500 | 600 | 800     |     |
|--|--|---|-----|-----|---------|-----|
| Number of 100kW power conversion modules             | 3  | 4   | 5   | 6   | 8       |     |
| Rated Power  | (N configuration)  | 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  |   |     |     | Up to 4 |     |
| <b>INPUTS</b>  |  |   |     |     |         |     |
| Nominal input voltage                                | 380/400/415 V (3Ph+N+PE)   |   |     |     |         |     |
| Input voltage tolerance <sup>(1)</sup>               | 240 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 30A 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       |   |     |     |         |     |
| Maximum altitude without derating                    | 1000 m   |   |     |     |         |     |
| Standard protection rating                           | IP20   |   |     |     |         |     |
| Frame colour   | RAL 7016   |   |     |     |         |     |
| <b>DIMENSIONS AND WEIGHT</b>                         |  |   |     |     |         |     |
| UPS dimensions mm (W x D x H) <sup>(2)</sup>         | 800 x 1000 x 2000  |   |     |     |         |     |
| Weight kg  | 550  | 600   | 650 | 750 | 900     |     |
| Clearance  | Standard   | No rear or lateral clearance for installation and maintenance |     |     |         |     |
|  |  | 300 mm rear clearance for air flow                            |     |     |         |     |
|  | Optional   | No rear clearance (top air outlet kit)                        |     |     |         |     |

(1) Conditions apply.

(2) Standard top entry configuration.

(3) Up to 100 A with power de-rating.