

# DELPHYS MX

Flexible transformer-based solution for resilient architectures  
from 250 to 900 kVA

Superior



## The solution for

- > Industry
- > Processes
- > Infrastructure
- > IT applications
- > Healthcare

## Attestations and certifications



**BUREAU  
VERITAS**  
DELPHYS MX series is  
attested by Bureau Veritas.

## Advantages



## Our dedicated Expert Services for UPS

We offer services to ensure your UPS highest availability:

- > Commissioning
- > On-site intervention
- > Preventive maintenance visits
- > 24-hour call out and rapid on-site repairs
- > Maintenance packages
- > Training



[www.socomec.com/services](http://www.socomec.com/services)

## Optimum load protection

- Permanent operation in VFI mode (online double conversion).
- The inverter isolation transformer provides galvanic separation both between the DC current and the load and between the two sources.
- Output voltage precision under all load conditions.
- High overload capacity to withstand abnormal load conditions.
- Easy maintainability reduces MTTR thanks to pull-out sub-assemblies and front access to all components.
- Fault-tolerant architecture with built-in redundant components.

## Flexible and easily upgradable

- Robust and reliable paralleling mode.
- Distributed or centralised bypass ensures perfect compatibility with any electrical infrastructure.
- Hot-plug capability simplifies extension or redundancy while keeping high quality power.
- The transformer based topology is adapted to all kinds of electrical installations.

## Minimised Total Cost of Ownership

- High efficiency in VFI mode, including the transformer.
- High power density: its small footprint saves space on your premises.
- The high and constant input power factor helps limit the dimensions of your upstream network infrastructure.
- Mains connection of the rectifier requires only 3 cables (no neutral).
- High short-circuit capacity simplifies downstream protective devices.

## Standard communication features

- Dry-contact interface (configurable voltage-free contacts)
- 3 slots for communication options

## Parallel systems

- Distributed or centralized bypass for parallel architecture up to 6 units.
- Redundant systems ("1+1" and "n+1").
- "2n" architecture with Static Transfer Systems.

## Standard electrical features

- Slots for 3 communication cards.
- Backfeed protection: detection circuit.
- Standard interface:
  - 3 inputs (emergency stop, generating set, battery protection),
  - 4 outputs (general alarm, back-up, bypass, preventative maintenance needs).

## Electrical options

- EBS (Expert Battery System)<sup>(2)</sup>.
- ACS synchronisation system for 2n architecture.
- Redundant electronic power supplies.
- Hot plug option (increase the power keeping the load supplied in double conversion).

## Mechanical options

- Reinforced IP protection up to IP52.
- Dust filters.
- Fan redundancy with failure detection.
- Top entry connection.

## Communication options

- User-friendly touch-screen multilingual color graphic display.
- Dry-contact interface (configurable voltage-free contacts).
- MODBUS RTU RS485 or MODBUS TCP.
- PROFIBUS / PROFINET gateway.
- BACnet/IP interface.
- NET VISION: professional WEB/SNMP Ethernet interface for secure UPS monitoring and remote automatic shutdown.
- REMOTE VIEW PRO supervision software
- IoT gateway for Socomec cloud services and SoLive UPS mobile app.
- Additional Com-slot extension.

## Technical data

DELPHYS MX						
Sn [kVA]	250	300	400	500	800	900
Pn [kW] <sup>(1)</sup>	225	270	360	450	720	810
Input/output	3/3					
Parallel configuration	up to 6 units					
INPUT						
Rated voltage <sup>(2)</sup>	380 V - 400 V - 415 V					
Voltage tolerance	340 to 460 V			360 to 460 V		
Rated frequency	50/60 Hz					
Frequency tolerance	± 5 Hz					
Power factor / THDI	0.93 / < 4.5%			0.94 / < 5%		
OUTPUT						
Rated voltage	380 V - 400 V - 415 V					
Voltage tolerance	< 1% (static load), ± 2% in 5 ms (dynamic load conditions from 0 to 100%)					
Rated frequency	50/60 Hz					
Frequency tolerance	± 0.2%					
Total output voltage distortion - linear load	ThdU < 2%					
Total output voltage distortion - non-linear load (IEC 62043-3)	ThdU < 3.2%		ThdU < 2.5%			
Short-circuit current	Up to 4,4 In					
Overload	150% for 1 minute, 125% for 10 minutes					
Crest factor	3:1					
Admissible power factor without derating	inductive up to 0.9 leading					
BYPASS						
Rated voltage	380 V - 400 V - 415 V					
Voltage tolerance	± 10%					
Rated frequency	50/60 Hz					
Frequency tolerance	± 2% (configurable for GenSet compatibility)					
EFFICIENCY						
Online mode	up to 93.5%					
Eco Mode	98%					
ENVIRONMENT						
Operating ambient temperature	from 0 °C up to +35 °C (from 15 °C to 25 °C for maximum battery life)					
Relative humidity	0% - 95% without condensation					
Maximum altitude	1000 m without derating (max. 3000 m)					
Acoustic level at 1 m (ISO 3746) <sup>(3)</sup>	≤ 70 dBA		≤ 72 dBA		≤ 75 dBA	
UPS CABINET						
Dimensions W x D x H	1600 x 995 x 1930 mm			3200 x 995 x 2210 mm		
Weight	2500 kg	2800 kg	3300 kg	5900 kg		
Degree of protection	IP20					
Colours	RAL 9006					
STANDARDS						
Safety	IEC/EN 62041-1, AS 62040.1.1, AS 62040.1.2					
EMC	IEC/EN 62040-2, AS 62040.2					
Performance	IEC/EN 62040-3, AS 62040.3					
Product declaration	CE, RCM (E2376), UKCA					

(1) Conditions apply. (2) DELPHYS MX 250-500: others on demand. (3) As per power range.

## Remote monitoring and cloud services

- SoLink: Socomec 24/7 remote monitoring service connecting your installation to the nearest Socomec Service Centre.
- SoLive UPS: mobile app enabling the monitoring of the UPS systems from a smartphone.