**DELPHYS MX**

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

**The solution for**
- Industry
- Processes
- Infrastructure
- IT applications
- Healthcare

**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.

**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.

**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.

**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
## 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)
- 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

<table>
<thead>
<tr>
<th>Sn [kVA]</th>
<th>250</th>
<th>300</th>
<th>400</th>
<th>500</th>
<th>800</th>
<th>900</th>
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<tbody>
<tr>
<td>Pn <a href="1">kW</a></td>
<td>225</td>
<td>270</td>
<td>360</td>
<td>450</td>
<td>720</td>
<td>810</td>
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</tbody>
</table>

**INPUT**
- Parallel configuration
  - up to 6 units
- Rated voltage(2)
  - 380 V - 400 V - 415 V
- Voltage tolerance
  - 340 to 460 V
- Rated frequency
  - 50/60 Hz
- Frequency tolerance
  - ± 5 Hz
- Power factor / THDi
  - 0.93 / < 4.5%

**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 < 3.2%
- Total output voltage distortion - non-linear load
  - 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)(3)
  - ≤ 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, ROM (E2376)

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