

DELPHYS MX Elite+

High performance UPS with an embedded galvanic isolation transformer to meet your requirements from 160 to 600 kVA



DELPHYS MX Elite+ PNG

Function

DELPHYS MX Elite+ is a Three-phase UPS with a embedded transformerbased inverter designed to provide a continued power supply for your most critical installations. The isolation transformer provides galvanic isolation between the power converters and the user output.

Advantages

The best protection for your load

- Permanent operation in VFI mode (online double conversion).
- Provide accurate output voltage under all load conditions.
- High short-circuit current capacity, which facilitates the selection of protection devices in downstream distribution.

Robust & resilient design

- Isolation transformer embedded with the inverter to ensure complete electrical isolation between the DC circuit and the load output.
- Fault-tolerant architectures with essential functional redundancy.
- Rugged mechanical and electrical properties for industrial environments.
- Redundant LED display for consistent UPS control.
- Standard PCB tropicalisation

User-friendly

- 10-inch color touch screen.
- User friendly HMI.
- Communication upgradable.

High availability and cost-effective equipment

- IGBT rectifier with PFC controller; high efficiency, high and constant input power factor, low current harmonic content.
- These features help limit the size of the upstream network infrastructure.
- ECO Mode with 99% efficiency.
- Accurate diagnosis ensures the power supply of the load.
- Prevent cascading failures of parallel systems.
- Rectifier soft start function, prevents generators loadstep ensuring smooth operation.
- Specifically designed to be adapted to different industrial environments: higher IP protection capability, longer backup time.
- Field-proven technology.
- Easy maintainability reduces MTTR thanks to pull-out sub-assemblies and full front accessible components.

The solution for

- > Industry
- > Infrastructure & Transport
- > Building
- > Healthcare
- > Energy

Strong points

- > The best protection for your load
- > Robust & resilient design
- > User-friendly
- > High availability and cost-effective equipment

Conformity to standards

- > IEC 62040-1
- > IEC 62040-2

Expert services

We offer services to ensure your UPS has the highest availability:

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

General characteristics

- 10-inch touch screen display.
- Backfeed protection: detection circuit.
- Customizable IP protection solution.
- N+X redundant parallel architecture.
- Up to 6 units can be connected in parallel.

Electrical options

- Extended top outlet solution
- Higher IP protection level.

Standard communication features

- Full communication function, RS485, RS232 and other communication interfaces.
- Dry contact board with 8 NO/NC contacts.

Communication options

- 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.

Technical data

DELPHYS MX Elite+							
Sn [kVA]	160	200	250	300	400	500	600
Pn [kW]	144	180	225	270	360	450	540
Input / Output	3/3						
Parallel configuration	Up to 6 units						
INPUTS							
Rated voltage	380 V - 400 V - 415 V						
Voltage tolerance	± 20% ⁽¹⁾						
Rated frequency	50/60 Hz						
Frequency tolerance	+/- 10%						
Power factor	≥ 0.99 @ full load						
Current harmonic content (THDI)	≤ 3% full load						
OUTPUTS							
Rated voltage	380 V - 400 V - 415 V						
Voltage tolerance	± 1%						
Rated frequency	50/60 Hz						
Frequency tolerance	Self-Oscillation ± 0.1%						
Total output voltage distortion - Linear load	≤ 1%						
Total output voltage distortion - Nonlinear load	≤ 5%						
Overload	up to 150% for 1 minute, 125% for 10 minutes						
Crest factor	3 : 1						
Short circuit current	Up to 3.5 In (100 ms)						
BYPASS							
Rated voltage	380 V - 400 V - 415 V						
Rated frequency	50/60 Hz						
Frequency tolerance	± 5%						
EFFICIENCY							
Online mode	Up to 94 %						
Eco mode	Up to 99 %						
ENVIRONMENT							
Ambient operating temperature	from 0 °C up to +40 °C ⁽¹⁾						
Humidity	0% ~ 95% without condensation						
Maximum altitude	1000 m without derating						
Acoustic level (as per ISO3746)	< 68 dB		< 72 dB				
UPS CABINET							
UPS dimensions (W x D x H)	1000 x 850 x 1900			1500 x 1000 x 1900		2200 x 1000 x 1900	
Weight	1350 kg			2000 kg		2800 kg	3000 kg
Standard protection rating	IP20 / IP21 (optional)						
Colours	RAL 9006						
COMPLIANCE TO STANDARDS							
Safety / EMC	IEC 62040-1, IEC 62040-2						

(1) Conditions apply.