



DELPHYS MP elite

from 80 to 200 kVA

your protection up to 1200 kVA

Three-phase UPS



The solution for

- > Industry
- > Telecommunications
- > Processes

Advantages



High quality power supply

- The SVM digital modulation (Space Vector Modulation) fitted to the transformer integrated downstream of the inverter allows supply to your installations with:
 - precise voltage even when the load between phases is completely unbalanced,
 - stable output voltage during significant and quick variations in loads ($\pm 2\%$ in less than 5 ms).
- High output power quality to supply sensitive loads.
- A very high short-circuit capacity which facilitates the selection of protective devices for selectivity in the downstream distribution.
- An isolation transformer is installed on the inverter output to ensure complete galvanic isolation between DC circuit and load output. This insulation also provides a separation between the two inputs when they are supplied by different sources.

High availability

- A fault-tolerant architecture with redundancy of basic functions, such as the ventilation system.
- A variety of architectures for parallel operations, to deal with redundancy, management and changes in power output.
- The ideal solution for grouping with generator sets without using an excessively large generator.

Battery availability at all times

- An innovative load algorithm which adapts to the environmental conditions and the condition of the battery to increase its life.
- A highly-developed monitoring system, capable of locating and correcting any problems interacting with the charging device.

Cost-effective equipment

- A "clean" IGBT rectifier. The power factor and THDI at the rectifier input are constant whatever the battery charge status (continuous voltage level) and the load rate of the UPS. It eliminates any disturbance on the upstream network (transformer, generator set and distribution).
- The cutting rectifier guarantees the supply of current with an exceptionally low rate of harmonic distortion.
- Reduced current consumption thanks to an input power factor of 0.99 without derating, and constant in every situation.

User-friendly operation

- A control panel with graphic display for more ergonomic operation.
- An array of "com-slot" plug-in communication interfaces, for upgrading your operating requirements evolution.

Simplified maintenance

- An advanced diagnostic system.
- A remote access device connected to the remote maintenance centre.
- Easy access to subassemblies and components, facilitating tests and reducing maintenance time (MTTR).

Parallel systems

- Modular parallel up to 6 units, development without constraint.
- Distributed or centralized bypass, progressive development.
- Twin-channel architecture with Static Transfer Systems.

Standard electrical features

- Slots for 7 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).
- Parallel connection up to 6 units.

Electrical options

- BHC UNIVERSAL.
- EBS (Expert Battery System).
- FLYWHEEL compatible.
- ACS synchronisation system.
- Redundant electronic power supplies.

Mechanical options

- Reinforced IP protection degree.
- Ventilation filters.
- Redundant ventilation with failure detection.
- Top entry connection.

Communication options

- GTS (Graphic Touch Screen).
- ADC interface (configurable voltage-free contacts).
- RS232, RS422, RS485 serial port JBUS/MODBUS or PROFIBUS.
- MODBUS TCP interface (JBUS/MODBUS tunneling).
- BACnet/IP interface.
- NET VISION: professional WEB/SNMP interface for UPS monitoring and shutdown management of several operating systems.

Remote monitoring service

- Remote mobile and web-based surveillance service connected 24/7 to your local Socomec Service Centre.

Technical data

DELPHYS MP elite					
Sn [kVA]	80	100	120	160	200
Pn [kW]	64	80	96	128	160
Input/output	3/3				
Parallel configuration (distributed or centralised bypass)	up to 6 units (distributed or centralised bypass)				
INPUT					
Rated voltage	380 V - 400 V - 415 V ⁽¹⁾				
Voltage tolerance	340 to 460 V				
Rated frequency	50/60 Hz				
Frequency tolerance	45 to 65 Hz				
Power factor / THDI	0.99 constant / 2.5 % without filter				
OUTPUT					
Rated voltage	380 V - 400 V - 415 V (configurable) ⁽¹⁾				
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	< 2 %				
Total output voltage distortion - non-linear load	< 4 %				
Short-circuit current	Up to 3.5 In				
Overload	150 % for 1 minute, 125 % for 10 minutes				
Crest factor	3:1				
Power factor without derating	0.9 lagging to 0.9 leading				
BYPASS					
Rated voltage	380 V - 400 V - 415 V				
Voltage tolerance	± 10% (selectable)				
Rated frequency	50/60 Hz				
Frequency tolerance	± 2% (configurable for GenSet compatibility)				
EFFICIENCY					
Online mode	94 %				
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)	65 dBA		67 dBA		
UPS CABINET					
Dimensions W x D x H	1000 x 800 x 1930 mm				
Weight	740 kg	860 kg		1020 kg	
Degree of protection	IP20 (other IP as option)				
Colours	RAL 9006				
STANDARDS					
Safety	IEC 62040-1-2, IEC 60950				
EMC	IEC 62040-2				
Performance	IEC 62040-3				
Product declaration	CE				

(1) Others on demand. - (2) As per power range.