



DELPHYS *MP Elite*

Resilient transformer-based power protection
from 80 to 200 kVA

Three-phase UPS



DELPHYS 121 BT CAT

The solution for

- > Industry
- > Processes
- > Infrastructure
- > Healthcare
- > Service sector
- > Telecommunications

Advantages



Optimum load protection

- Permanent operation in VFI mode (online double conversion).
- The inverter isolation transformer provides galvanic separation of the DC current both from the load and the bypass source.
- 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.
- Hot-plug capability simplifies extension or redundancy while keeping high quality power.

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.
- Battery connection to UPS requires only 2 cables.

Robust and reliable

- Field-proven technology.
- Fault-tolerant architecture with built-in redundant components.
- Fan failure detection and management
- Accurate diagnostics guarantee power supply to the load.
- Cascade failure prevention for parallel systems.
- Mechanical & electrical robustness for industrial environments.

Parallel systems

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

Standard electrical features

- Slots for 6 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

- 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).
- MODBUS RTU.
- MODBUS TCP.
- PROFIBUS / PROFINET.
- BACnet/IP interface.
- NET VISION: professional WEB/SNMP interface for UPS monitoring and shutdown management of several operating systems.

Remote monitoring service

- LINK-UPS, remote monitoring service that connects your UPS to your Critical Power specialist 24/7.

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	ThdU < 2%				
Total output voltage distortion - non-linear load	ThdU < 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/EN 62040-1, IEC 60950-1, 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)				

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