BROCHURE

DELPHYS XL

High power UPS 1000 and 1200 kVA / kW



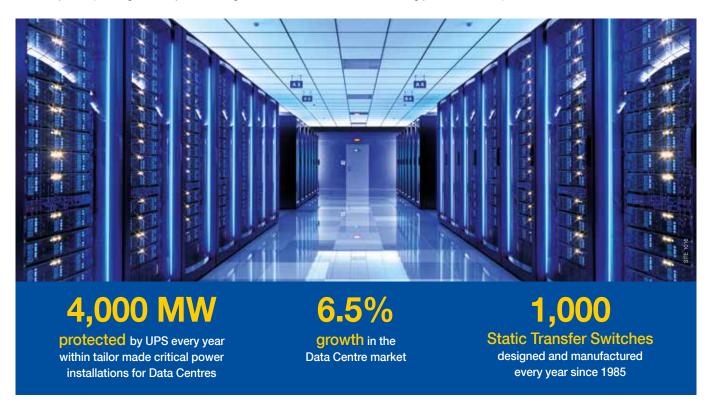


Let's partner to ensure the availability and energy performance of your Data Centre

From concept to commissioning - and beyond - Socomec has the expertise to guarantee the performance of your electrical installations.

By delivering the most innovative solutions matched to your precise requirements – with systems that are rightsized for you and easy to scale - we ensure the power availability and energy performance of your Data Centre. With an unwavering focus on efficiency and usage, we can help you face rising energy costs by designing and implementing systems that reduce operational expenditure whilst minimising harmful emissions.

Our experts are always close at hand to deliver ongoing preventive maintenance – a vital component when it comes to ensuring availability and guaranteeing the continuity of critical infrastructure. Furthermore, by managing the end-of-life of power assets it is possible to improve availability and operating efficiency – extending the installation's lifetime and reducing your carbon footprint.



Iconic products, sustainably renewed

We help our customers to design low voltage electrical facilities that consume less energy, are easier to manage and kinder to the environment by providing UPS with the lowest environmental impact.

Design rules	Manufacturing sites	Operating	Maintenance	End of life
Up to 20 years lifetime	Minimized logistic carbon footprint	Up to 35 tons of C02 emission reduction	Components usage optimization Fewer replacement	Responsible recycling management



Socomec is engaged to provide "Product Environmental Profiles" for all new products in order to share the environmental impact over their whole life cycle.

DELPHYS XL

For outstanding resiliency - that's rightsized

DELPHYS XL - a compact and highly efficient UPS - has been specifically engineered to secure the most critical applications, offering inherently superior protection and supporting fast and safe maintenance operations by design.

Based on a fully resilient architecture, **DELPHYS XL** provides outstanding resiliency to meet the particular requirements of colocation markets and Data Centres.





Best in class energy management

for maximum savings with certified efficiencies.



designed to fit any Data Centre power distribution architecture.



Unmatched resiliency

No single point of failure based on a unique brick concept.



supporting low MTTR with connected services.



DELPHYS XL catalogue page and technical data

Flexible integration

with an optimised footprint

Today's critical infrastructures need to accommodate rapid deployment requirements.

Delivering far greater benefits than classic monolithic systems, **DELPHYS XL** packs high power into an overall space-saving design while ensuring that integration within your existing architecture is simple and flexible.

Meeting the high power installation space constraints of very critical applications, **DELPHYS XL** has been designed to fit within your Data Centre - whatever your power distribution.

Flexible and adaptable integration

Footprint

Highly compact design

Positionina

No lateral or rear clearance required

Power distribution

Top or bottom cable entry Compatible with busbar flanges

Battery capability

No extra cabinet for DC coupling Connect up to 10 strings

Easy and fast deployment

Transportation

2 cabinets fully equipped and delivered on site

Installation & commissioning

Straightforward interconnection - requiring front access only

Site Acceptance Test

Full heat run test without the need of a load bank

Up to 70% space saving combined with **Socomec lithium-ion solution**

Ensuring the highest level of availability and reliability while reducing the Total Cost of Ownership, **DELPHYS XL** - combined with the Socomec lithium offer - provides you with an optimised package to meet your installation constraints and free up space for revenue generating equipment.



More space for servers and IT.



No battery replacement for up to 15 years even in high cycling conditions.



Save CAPEX and OPEX by reducing the cost of cooling.



Increase reliability and availability thanks to continous battery monitoring.



Sustainable solution with lower environmental impact over the life cycle vs VRLA.

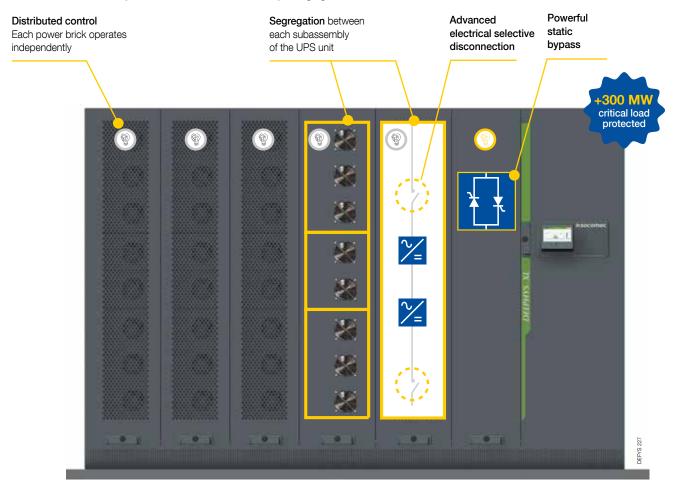
Unmatched resiliency

to maximise availability

DELPHYS XL leverages the strengths and uniqueness of our High Power XL platform - a field-proven control and power electronic architecture providing outstanding resiliency.

Eliminating traditional monolithic UPS single points of failure, *DELPHYS XL* guarantees the highest level of service continuity. *DELPHYS XL* is a fault tolerant UPS system assuming complete redundancy under real-world operating conditions.

This intrinsic redundancy reinforces the inherent reliability, bringing the Mean Time Between Critical Failure to several million hours.





Unique Socomec brick architecture

No fault propagation - tested and approved

Advanced electrical selective disconnection per power brick:

• Input, output and DC isolation devices (fast fuses and contactors)

No single point of failure

Distributed Control between each power brick and the static bypass:

 Independant control board based on peer to peer communication strategy

"An impressive fault tolerant UPS embedding a native intrinsic redundancy."

Mauro P. Senior electrical design manager



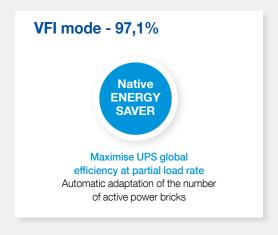
DELPHYS XL guarantees the best selectivity for your critical application by providing the highest clearance capability upon downstream short-circuit thanks to a fuseless static switch architecture.

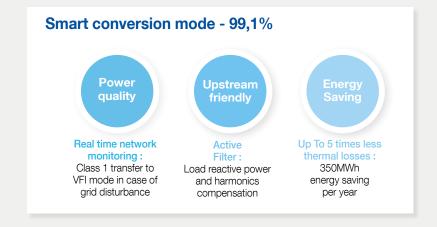
Best in class efficiencies

for maximum savings

Rising energy costs and a premium on floor space mean that every facility is focused on efficiency and usage in order to help reduce operational expenditure and CO₂ emissions. That's why **DELPHYS XL** combines several advanced working modes to optimise efficiencies within your Data Centre - without sacrificing power quality.

Smart Conversion Mode Instantaneous CLASS 1 transfer according to the IEC 62040-3 A specific algorithm continuously requirement without output voltage monitors the quality of the network and disturbances. selects - in real time - the optimum working mode between Double Conversion (VFI) 0 ms transfer and Line Interactive. Network out of tolerances Network within tolerances **Full Double Conversion Mode (VFI)** Line interactive Inverters are always activated, taking the load in double Combination of the high efficiency of the static bypass conversion in case of grid disturbances in parallel with the inverter working as an active filter Bypass line Bypass line À 99% Rectifier Rectifier 97% Inverter Inverter Load rate VFI — VFI Energy saver — Smart Conversion — Standard UPS





Easy and safe maintenance

supporting low MTTR

Based on our modular expertise, *DELPHYS XL* has been engineered with ease of servicing and secure maintenance in mind - supporting low MTTR through an innovative and unique service concept.

Power bricks and static bypass full extractable



- Easy front access subassembly extraction.
- 360° direct access to all components for fast replacement.



- Hands outside servicing without cabling.
- No risk of human error.



 Full power system pre-test to certify the maintenance operation before supplying critical loads.





What's more... ready to use POWER BRICK ON SITE

To deliver a fast MTTR, the deployment of an innovative and unique onsite maintenance station - including a spare power brick - enables recovery from abnormal situations in a limited time once the Socomec expert is on site.

This option is available in any maintenance contract.

Critical chain compatibility

not only a matter of combining a number of assets

Today's architectures require appropriate coordination between the sources and the load, taking into account a range of potential events, operating behaviours and maintenance activities which may lead to a blackout.



ATS From 32 A to 3200 A

Socomec has decades of expertise in the integration of UPS, STS and ATS within different power distribution architectures, which translates into demonstrable value in

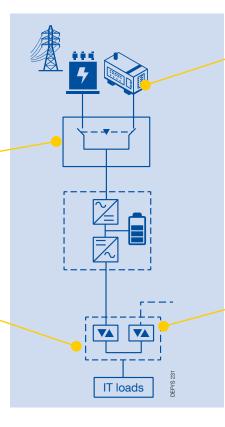


STS

From 32 A to 1800 A

a critical chain operation.

DELPHYS XL has been designed to guarantee a perfect coordination with Socomec STS.



Advanced Genset Management

A reduction in Genset sizing is becoming a common cost effective choice in DTC architecture, however, it may lead to a complete blackout in the event of significant load steps if not properly managed.

In case of genset weakness, DELPHYS XL shares automatically the needed energy from batteries, to avoid source failure.

Dynamic performances

Compliant with the class 1 requirement (IEC 62040-3)

DELPHYS XL ensures no disturbances for the customer load even under the most challenging load variation conditions.

Socomec Flex'UPS

Turn your soution into a financial asset

Socomec goes beyond conventional UPS functionalities, offering fast access to energy sources for optimizing facility energy management and bolstering the electricity grid's resilience to support sustainable energy deployment. **DELPHYS XL** is able to support access to new revenue streams while maintaining its core mission of protecting critical loads and preserving essential backup time during power outage.

Reduce facility operating costs

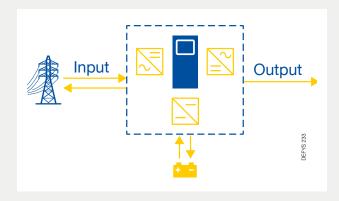
Get revenue from energy market

Peak Shaving
Smooth the input consumption

Demand response

Discharge the battery at peak time

Fast frequency response
Participate to grid stabilisation



UPS Flex mode – power input management

The UPS has the capability – thanks to a fully bidirectional architecture – to temporarily adjust its input power consumption by managing the energy stored in its batteries while giving utmost priority to the uninterrupted supply of critical loads.

Expert services

manufacturer's maintenance for trouble-free UPS operation

Our service contracts are tailored to customer needs, taking into account individual operational constraints, business processes and the unique level of criticality associated with specific applications. Whatever the issue, our internal escalation process gives us access to different levels of expertise to respond as quickly as possible. Our service teams are fully trained and provided with certified equipment in order to deliver the highest levels of expertise.

How does it work?

SILVER

The ideal plan for **preventive maintenance**: inspection visits, access to the Socomec office hours hotline (8x5) and response times within 24 hours.

GOLD

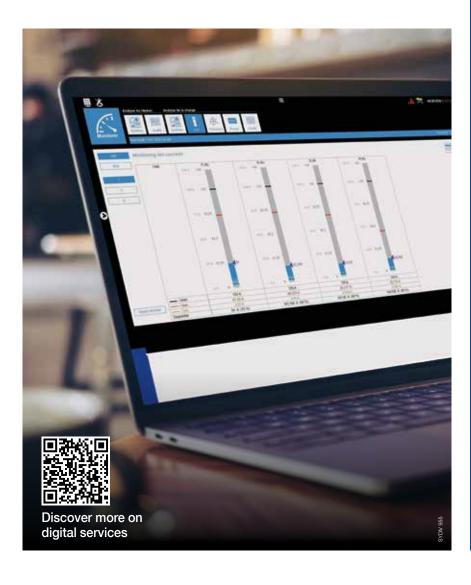
Prevent and cure: this package includes everything from the Silver plan, and also covers the labor and travel cost when responding to breakdowns.

PLATINUM

The PLATINIUM plan includes spare parts, labor and travel. For the most critical applications, optional 24/7 hotline and up to 4 hours on site response time are available.



New option: power brick as a spare



Optimise your experience thanks to connectivity

SoLive

UPS monitored anywhere, anytime (cloud)

- Mobile App to monitor the UPS
- Overview of all installed units
- Real-time alarms and notifications
- Dashboard with operating parameters

SoLink

Proactive acknowledgement

- Alarm directly notifies the expert
- Proactive alarm check by the expert
- Expert calls and briefs the end user

Remote troubleshooting

Remote troubleshooting

- Quick intervention via remote access
- Immediate diagnosis and root cause analysis
- Only one on-site visit is required

Technical data

UPS power rating	1 000 kVA/kW	1 200 kVA/kW		
Efficiency in Double Conversion Mode		rd party (Bureau Veritas or TÜV)		
Efficiency in Smart Conversion Mode				
Parallel capability	Up to 99.1% - certified by third party (Bureau Veritas or TÜV) Up to 4 units			
	op to	7 4 4 11163		
nputs		W and and w		
Nominal input voltage	380 / 400 / 415V - 3Ph or 3Ph+N			
Input voltage tolerance*	200 to 480V			
Input connection	Common or separated / top or bottom			
Frequency range	50/60Hz ± 10%			
Input power factor / THDi	> 0.99 / < 1.5% @ full load			
Power walk-in on Genset	Linear ramp - from 1A/sec to 1000A/sec			
Outputs				
Nominal output voltage	380 / 400 / 415V - 3Ph or 3Ph+N			
Frequency range	50/60Hz ± 0.01% (free running)			
Voltage regulation	± 1% steady state			
Output voltage distortion (THDv)	<	1%		
Output voltage performance (load variation 0 - 100%)	Complies with IEC 620	40-3 Class 1 (VFI-SS-111)		
Inverter overload capability	110% 1h / 125% 10 min / 144% 1 min	110% 1h / 125% 10 min / 150% 1 min		
Bypass overload capability	110% continuous / 12	5% 10 min / 150% 1 min		
Inverter short circuit capability	up to 3230 A	up to 4090 A		
Bypass short circuit selectivity	Fuseless archi	tecture (Icw 65kA)		
Batteries				
Battery type - 2 wires (+/-)	VRLA / Lithium-ion			
Battery voltage range	Up t	Up to 705V		
Battery connection capability	Up to 10 strings	(w/o extra cabinet)		
Lithium-ion communication	Modbus TC	P / dry contact		
Environment				
Operating temperature	0 - 40°C			
Humidity	0 - 95% witho	ut condensation		
Air flow	From fr	From front to top		
Maximum altitude without derating	1000m	(3,300 ft)		
Standard protection rating	IP20 / IP21 (optional)			
Seismic rating	Zone 2 / Zone 4 (optional)			
Frame colour	RAI	L 7016		
Compliance with standards				
Safety	IEC/EN	IEC/EN 62040-1		
EMC	IEC/EN	IEC/EN 62040-2		
Performance	IEC/EN	N 62040-3		
Dimensions and weight				
UPS dimensions (W x D x H)	2625 x 1000 x 2005	3003 x 1000 x 2005		
Weight	2600 kg	3200 kg		
		or installation and maintenance		





Socomec: our innovations supporting your energy performance

1 independent manufacturer

3,900 employees worldwide

8 % of sales revenue dedicated to R&D

400 experts dedicated to service provision

Your power management expert











POWER SWITCHING

POWER MONITORING POWER CONVERSION ENERGY STORAGE

The specialist for critical applications

- Control, command of LV facilities
- Safety of persons and assets
- Measurement of electrical parameters
- Energy management
- Energy quality
- Energy availability
- Energy storage
- Prevention and repairs
- Measurement and analysis
- Optimisation
- Consultancy, commissioning and training

A worldwide presence

12 production sites

- France (x3)
- Italy (x2)
- TunisiaIndia
- China (x2)
- USA (x2)
- Canada

30 subsidiaries and commercial locations

- Algeria Australia Austria Belgium China
- Canada Dubai (United Arab Emirates) France (x2)
- Netherlands Poland Portugal Romania Serbia
 Singapore Slovenia South Africa Spain Sweden
- Switzerland Thailand Tunisia Turkey UK USA

80 countries

where our brand is distributed

HEAD OFFICE

SOCOMEC GROUP

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