BROCHURE

DELPHYS XL

High power UPS
1000 and 1200 kVA / kW

Discover all our solutions
for Data Centres
bit.ly/DatacentreEN

When **energy** matters

socomec
Innovative Power Solutions

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.

4,000 MW
protected by UPS every year within tailor made critical power installations for Data Centres

6.5%
growth in the Data Centre market

1,000
Static Transfer Switches designed and manufactured every year since 1985

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

PEP ecoPASSPORT®

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.

DEFYS 207

Flexible integration

with an optimised footprint.

Best in class energy management

for maximum savings with certified efficiencies.

Unmatched resiliency

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

Critical chain interoperability

designed to fit any Data Centre power distribution architecture.

Easy and safe maintenance

supporting low MTTR with connected services.

Find out more

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
- **Positioning**
  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.

Optimised footprint

More space for servers and IT.

Reduce your TCO by up to 50%

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

High working T°

Save CAPEX and OPEX by reducing the cost of cooling.

Embedded monitoring

Increase reliability and availability thanks to continous battery monitoring.

Eco friendly

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

Unmatched resiliency
to maximise availability

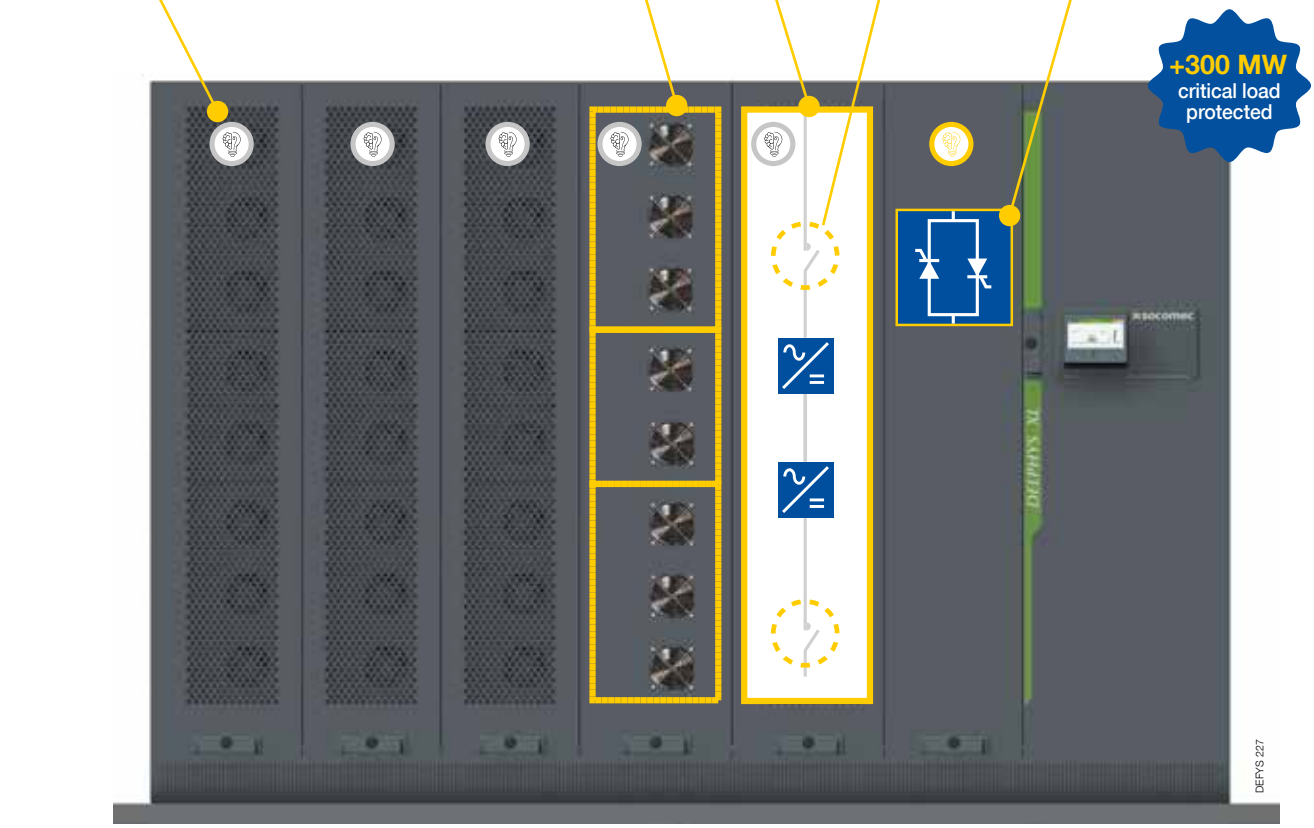
DELPHYS XL leverages the strengths and uniqueness of our High Power XL platform - a field-proven control and power electronic architecture providing outstanding resiliency.
Eliminating traditional monolithic UPS single points of failure, ***DELPHYS XL*** guarantees the highest level of service continuity.
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.

Distributed control
Each power brick operates independently

Segregation between each subassembly of the UPS unit

Advanced electrical selective disconnection

Powerful static bypass



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

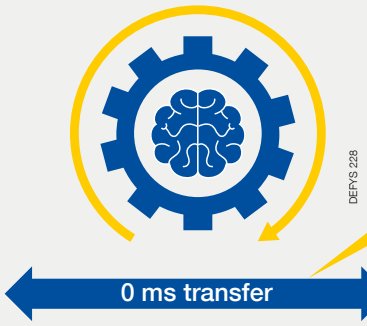
DELPHYS XL guarantees the best selectivity for your critical application by providing **the highest clearance capability** upon downstream short-circuit thanks to a **fuseless static switch architecture.**

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 CO_2 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

A specific algorithm continuously monitors the quality of the network and selects - in real time - the optimum working mode between **Double Conversion (VFI)** and **Line Interactive.**



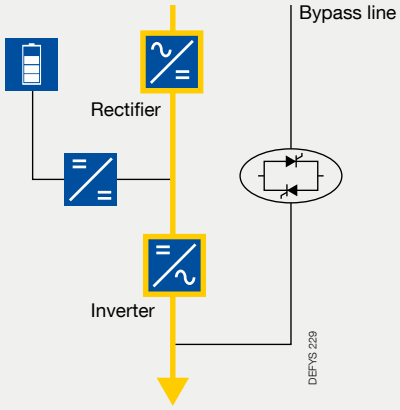
Instantaneous CLASS 1 transfer according to the IEC 62040-3 requirement without output voltage disturbances.

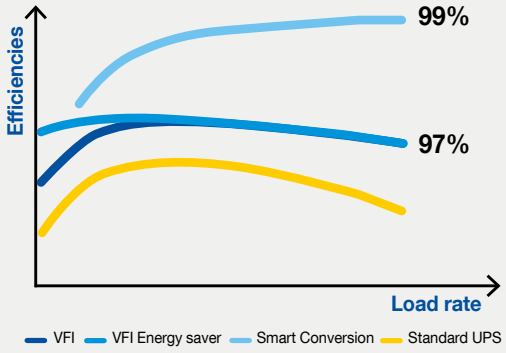
Network out of tolerances

Network within tolerances

Full Double Conversion Mode (VFI)

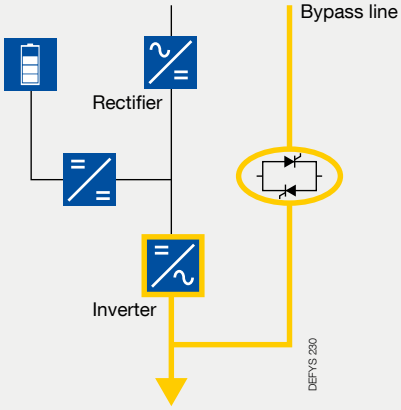
Inverters are always activated, taking the load in double conversion in case of grid disturbances





Line interactive

Combination of the high efficiency of the static bypass in parallel with the inverter working as an active filter



VFI mode - 97,1%

Native ENERGY SAVER

Maximise UPS global efficiency at partial load rate
Automatic adaptation of the number of active power bricks

Smart conversion mode - 99,1%

Power quality

Real time network monitoring :
Class 1 transfer to VFI mode in case of grid disturbance

Upstream friendly

Active Filter :
Load reactive power and harmonics compensation

Energy Saving

Up To 5 times less thermal losses :
350MWh energy saving per year

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

DEFYS 203

Minimum MTTR

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

Risk-free intervention

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

Full confidence

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


DEFYS 226A

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

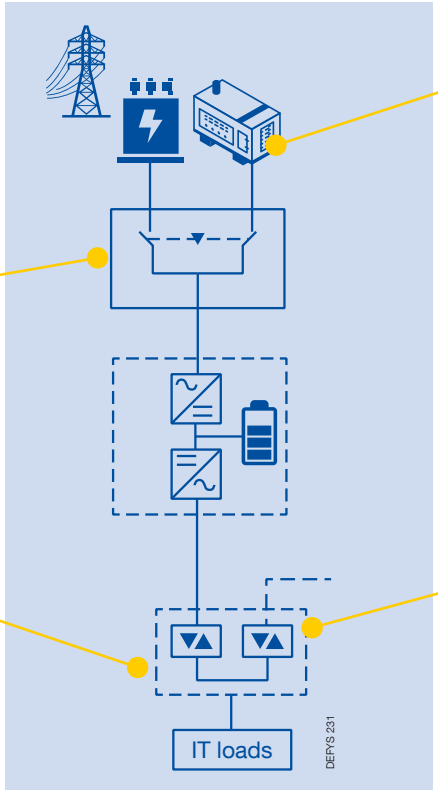
From 32 A to 3200 A

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

STS

From 32 A to 1800 A

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

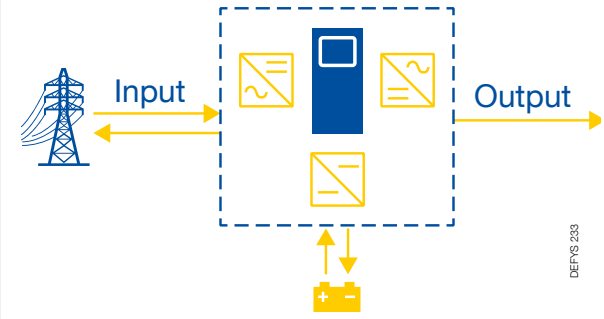
Turn your soution into a financial asset

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	Demand response	Fast frequency response
Smooth the input consumption	Discharge the battery at peak time	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.

Optimise your experience through connectivity

SoLive

UPS remote monitoring mobile app

- Overview of all installed units.
- Real-time alarms and notifications.
- Dashboard of operating parameters.

SoLink

24/7 remote monitoring by Socomec experts

- Alarm sent to the expert.
- Proactive alarm verification by the expert.
- Final user notified by the expert.

Remote diagnostics and troubleshooting

- Fast intervention through remote access.
- Immediate root cause diagnosis and analysis.
- On-site visit scheduled if necessary.

Predictive maintenance of consumables (optional)

- Real-time monitoring of wear parts.
- Regular reports or on alarm detection.
- Optimised consumables replacement.

Technical data

General characteristics		
UPS power rating	1 000 kVA/kW	1 200 kVA/kW
Efficiency in Double Conversion Mode	Up to 97.1% - certified by third party (Bureau Veritas or TÜV)	
Efficiency in Smart Conversion Mode	Up to 99.1% - certified by third party (Bureau Veritas or TÜV)	
Parallel capability	Up to 4 units	
Inputs		
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 62040-3 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 / 125% 10 min / 150% 1 min	
Inverter short circuit capability	up to 3230 A	up to 4090 A
Bypass short circuit selectivity	Fuseless architecture (I_{cw} 65kA)	
Batteries		
Battery type - 2 wires (+/-)	VRLA / Lithium-ion	
Battery voltage range	Up to 705V	
Battery connection capability	Up to 10 strings (w/o extra cabinet)	
Lithium-ion communication	Modbus TCP / dry contact	
Environment		
Operating temperature	0 - 40°C	
Humidity	0 - 95% without condensation	
Air flow	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	RAL 7016	
Compliance with standards		
Safety	IEC/EN 62040-1	
EMC	IEC/EN 62040-2	
Performance	IEC/EN 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
Clearance	No rear or lateral clearance for installation and maintenance	

... and for unsurpassed efficiency - that's proven.

"Having received the **2022 Global UPS Customer Value Leadership award** from **Frost & Sullivan**, as well as being part of Elite UPS, we're raising the bar to create an evolution in Data Centre critical power architecture."

2022 BEST PRACTICES AWARD

EU CODE OF CONDUCT ELITE UPS Efficiency Commitment

Barthelmebs Clément,
High Power UPS Product Manager

Socomec: our innovations supporting your energy performance

1 independent manufacturer

4,200 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

EXPERT SERVICES

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)
- Tunisia
- India
- China (x2)
- USA (x2)
- Canada

30 subsidiaries and commercial locations
- Algeria • Australia • Austria • Belgium • China • Canada
- Dubai (United Arab Emirates) • France • Germany
- India • Indonesia • Italy • Ivory Coast • Malaysia
- Netherlands • Poland • Portugal • Romania • Serbia
- Singapore • Slovenia • South Africa • Spain • Sweden
- Switzerland • Thailand • Tunisia • Turkey • UK • USA

80 countries where our brand is distributed

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100 years OF SHARED ENERGY

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