

BROCHURE

MODULYS XM

Modular UPS up to 600 + 50 kVA



When **energy** matters

 **socomec**
Innovative Power Solutions

MODULYS XM

Ultra-reliable and flexible UPS - built to last
Up to 600 + 50 kW



50 to 250 + 50 kW

As flexible as it is reliable, the MODULYS XM - a medium power modular UPS - can be **configured to order**.

Reliable 50 kW power modules

- ▶ 4 times market standard MTBF with **certified 1,000,000 hours**

Automatic firmware alignment and self-setting

- ▶ Risk-free intervention: just **2 minutes** for a module change or removal with no need for human intervention

Modular bypass

- ▶ **Increased short-circuit** capability thanks to an additional bypass module

Need something unique to you?

25+ standardised and pre-engineered parts to customise your UPS

And what's more...
... it has a proven design life of more than **25 years!**

Top/bottom or mixed cabling

▶ Flexible on-site cabling thanks to **native preset**

All switches inside

▶ Optimised costs, footprint and functionalities thanks to **no additional** external **switchboard**

Full front access

▶ **Minimum global footprint** with no extra clearance required

MOD-159

50 to 600 + 50 kW

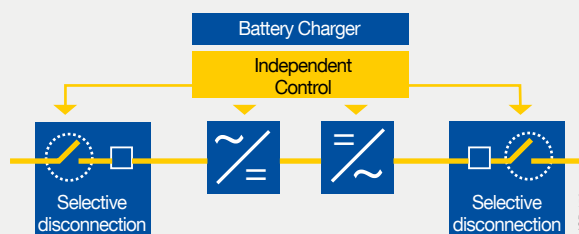


Proven ultimate reliability

Unique functionality beyond market standards - that's proven!

MODULYS XM has been designed for a range of applications, including the most critical. What that means is that this UPS has been engineered with the highest degree of reliability in mind.

Rugged and totally independent power modules



1,000,000 hours (certified)

Minimised failures and optimised TCO thanks to a MTBF 4 times better than the market standard.



+500 mating cycles

Heavy duty connectors – IEC 60512-9-1 certified.

Electrical segregation

No fault propagation thanks to upstream and downstream galvanic insulation and smart selective disconnection.

Certified system robustness

x2 immunity (certified)

Enhanced robustness thanks to surge and burst resistance that is 2 times higher than EN62040-2 standard levels.

Seismic resistance (certified)

Upper level of robustness thanks to UCB 97 zone 4 compliance.

Full performance up to 40°C (certified)

Fully rated load (kW = kVA/PF out = 1) from low to high input mains and in temperatures between 0°C and 40°C.

Fault-tolerant architecture

Fully redundant

Power availability in all circumstances thanks to totally independent power modules and redundant parallel bus connection (ring configuration).

Distributed control

No single point of failure thanks to internal parallel and load sharing management (no centralised control board).

Hybrid bypass structure

Ultimate resiliency thanks to fully sized, centralized, autonomous and segregated static bypass - together with distributed modules bypasses.

Minimum MTTR

High availability of your critical application restored in a few minutes

01

“Just a box to move”

- Full hot-swap.
- Complete front access.
- Electronic-free cabinet: no electronics fixed to the enclosure, complete access to all components.

02

“Just unplug + plug-in”

- Add or change power modules in only 2 minutes.
- No specialist skills or engineering expertise required and no need to be concerned about firmware or parameter synchronisation.
- Fully automatic procedure with verified safety operation.

03

“Just proceed - protection is ON, your application is protected”

- Fully protected load - always protected in double conversion mode with no need to switch on bypass.



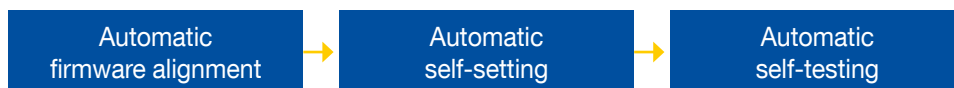
Risk-free maintenance

When eliminating human error becomes a reality

Full front access

- All components securely enclosed within plug-in boxes.
- **Hands-outside servicing:** move boxes without direct contact with live electronics, ensuring error-free operations.

Minimal human involvement



Watch the video!



What's more?

First-time-fix intervention

Thanks to digital services, you can now dramatically reduce your MTTR.

- Detect problems in real time thanks to 24/7 monitoring of your UPS via the SoLive mobile application, or let our experts do it for you via our remote monitoring service.
- Act in record time and reduce the number of on-site interventions thanks to remote diagnostics.

High flexibility

Easy customisation - your UPS is unique as your needs are

MODULYS XM's exceptional configurability makes it the ideal choice for a wide range of applications. Whether you're implementing it within an existing setup or a brand-new installation, you can tailor the XM precisely to your needs. While some options may need to be chosen during the initial configuration, real flexibility remains throughout - and most options can be added at the installation site effortlessly, without the need for any further adjustments.

One solution to cover every cabling need

Adaptable system and simplified integration according to infrastructure requirements

With the same system solution, MODULYS XM is able to meet every cabling need. Top cabling? Bottom cabling? A mix of top-bottom cabling? MODULYS XM is ready!

Bottom cabling



Top cabling



Bottom cabling



— BATTERY — OUT — IN/AUX

Compatible with any grounding system: TN-S, TN-C, TT, IT.

25+ standardised and pre-engineered parts

Thanks to our standardised, pre-engineered parts, you have the flexibility to customise your UPS system, even last minute on-site, ensuring that it precisely matches your specific needs.

To personalise the UPS architecture

- Power module to scale the power or increase system redundancy
- Bypass module to increase short-circuit capability or bypass redundancy
- Lithium Battery
- Lead Battery modular hot swap solution
- Lead Battery high capacity solution
- Automatic external synchro interface
- Cold-start

To connect the UPS and access digital services

- IoT gateway for Socomec cloud services and the SoLive UPS mobile app
- Touch Screen Remote Mimic Panel
- WEB/SNMP Ethernet interface
- Programmable dry-contact interface
- Modbus TCP interface
- Profibus coupler interface
- Environmental monitoring device

To adapt the UPS to the environment

- Seismic kit
- Top roof IP21 protection kit
- Interconnection kit for common mains
- PEN kit for TN-C grounding system
- External battery temperature sensor
- Environment temperature and humidity sensor
- Top-cabling cabinet
- Cabling kit for top-cabling
- Top-air exhaust kit
- Cover kit for system empty slot
- Lifting bolts

High short-circuit solution on-demand

The MODULYS XM maintains compatibility even in situations where the short-circuit current exceeds its standard rating, demonstrating robustness and reliability when handling unexpected abnormal events and electrical loads.

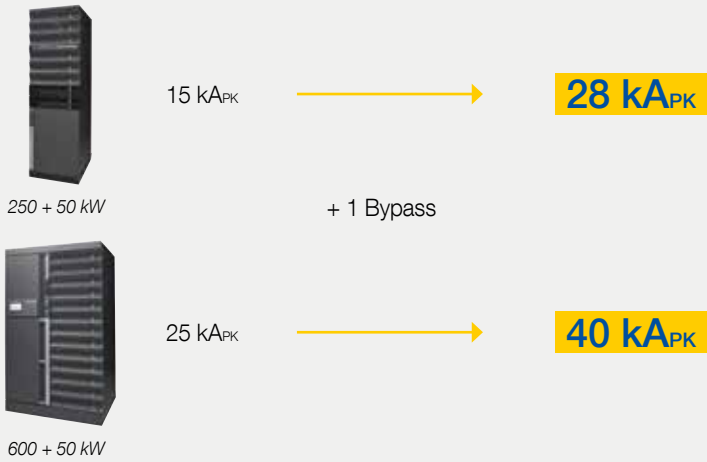
System short circuit performance

- Short circuit current withstand (I_{cw}) ✓ **65 kA_{RMS}**
- Conditional short circuit current (I_{cc}) ✓



What's more? Flexible Bypass short circuit capability

The MODULYS XM's short circuit capability can be increased on demand by simply inserting an additional plug-in bypass module into the system's empty slot.



The bypass short-circuit capability is the maximum short-circuit current that the bypass can withstand without failure.



APPL1080

Compatible with Li-Ion battery technology

Ensuring the highest level of availability and reliability while reducing the Total Cost of Ownership, MODULYS XM - 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.



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

High performance

Proven long-lasting durability - 25+ years design lifetime

With a remarkable lifespan of 25 years and exceptional proven efficiency, this UPS is your steadfast partner in overcoming modern challenges, such as cost management and reducing your carbon footprint.

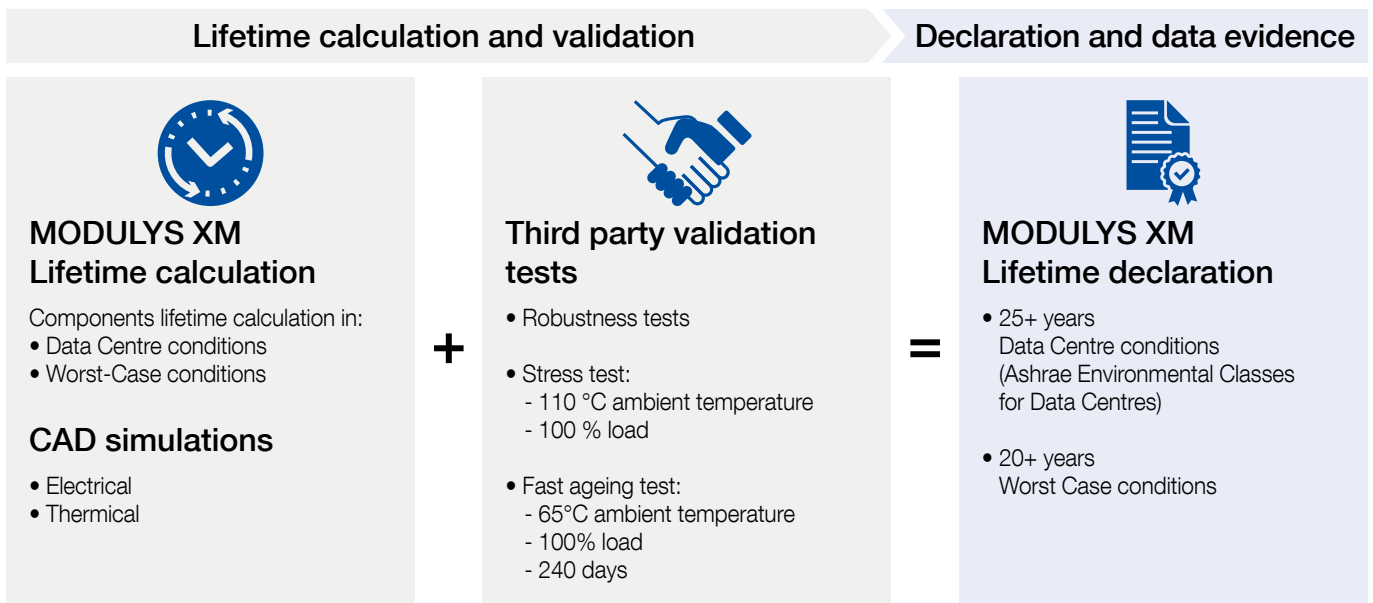
With a **lifetime of 25+ years**, your UPS can be a keeper

By choosing equipment with an extended lifetime, or better still, equipment that's equal to the lifetime of your application, you can not only reduce your costs and avoid stress during the transition, but you can also make a positive impact on the environment. By designing a product that lasts, on average, the entire life of your installation, Socomec is committed to your priorities.

“ I always dread the moment when a UPS arrives at the end of its life and needs replacing. It's not only the financial impact of a new UPS, but it's also the potential risks associated with replacement. **”**

Data Centre facility manager

How can we prove that?



What's more?

Proven high efficiency, without compromise

High efficiency independently tested and verified by an international certification organisation across a wide range of loads, voltages and operating conditions, for certainty of performance in real operating conditions.

Energy Saver feature: maximise UPS global efficiency under partial load rate conditions.

- Load always protected in online double conversion mode (VFI).
- Automatically adapt the number of power bricks in hot stand-by mode, maintaining safe load protection with redundancy.
- Up to 96.5% efficiency above 15% load rating.
- Load step management feature - sleep module will be awakened instantly.
- Rotating algorithm guarantees homogenous power brick ageing.

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 cost of responding to breakdowns.

PLATINUM

The PLATINIUM plan includes spare parts. For the most critical applications, the PLATINIUM+ plan comes with a 6 hour response time and 24/7 hotline.



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

<i>MODULYS XM</i>		
Power	250 +50 kVA/kW	600 + 50 kVA/kW
Module power	50 kW (up to 40° ambient temperature)	
Number of power modules	1 to 6	2 to 13
Input / output	3/3	
INPUT		
Voltage	400 V 3ph+N (340 V to 480 V)	
Frequency	40/70 Hz	
Power factor / THDI	> 0.99 / < 1.5%	
OUTPUT		
Power factor	1 (according to IEC/EN 62040-3)	
Voltage	380/400/415 V ±1 % 3ph+N	
Frequency	50/60 Hz (configurable) ±0.1 % free running	
Voltage distortion	< 1% (linear load), < 3% (non-linear load according to IEC 62040-3)	
Overload	125% for 10 minutes, 150% for 1 minute	
BYPASS		
Voltage	rated output voltage ±15% (configurable from 10% to 20%)	
Frequency	50/60 Hz ±2% (configurable for GenSet compatibility)	
Bypass short-circuit capability (I _{TSM})	up to 28 kA _{PK}	up to 40 kA _{PK}
EFFICIENCY (TÜV SÜD VERIFIED)		
Online double conversion mode	up to 96.5%	
SHORT CIRCUIT PERFORMANCE		
Conditional short circuit current (I _{cc})	up to 65 kA _{RMS}	
Short circuit current withstand (I _{cw})	up to 50 kA _{RMS}	up to 65 kA _{RMS}
ENVIRONMENT		
Ambient temperature	0 °C to 40 °C (15 to 25 °C for maximum battery life)	
Relative humidity	0 to 95% without condensation	
Maximum altitude	1000 m without derating (3000 m max)	
Acoustic level at 1 m	< 57 dBA	< 64 dBA
SYSTEM CABINET		
Width	600 mm	1200 mm
Depth	890 mm	950 mm
Height	1990 mm	
Weight (empty cabinet)	253 kg	675 kg
Degree of protection	IP20	
STANDARDS		
Safety	IEC/EN 62040-1, AS 62040-1	
EMC	IEC/EN 62040-2 Class C3, AS 62040-2	
Performance	VFI-SS-11 - IEC/EN 62040-3, AS 62040-3	
Environmental	IEC/EN 62040-4	
Product declaration	CE, RCM, EAC, CMIM, UKCA	
POWER MODULE		
Height	3U	
Weight	36 kg	
Type	Hot plug-in / Hot-swappable / self-setting / automatic firmware upgrade	
MTBF	> 1 000 000 hours (third party verified)	



Different needs?
Meet the rest of the modular family



MODULAR FAMILY



MODULYS XS



MODULYS GP



MODULYS XL

Range	2.5 to 20 kVA / kW Single-phase UPS Free standing or 19" rack	25 to 600 kVA / kW Three-phase UPS Free standing or 19" rack	200 to 4800 kVA / kW Three-phase UPS Free standing
Safe and easy deployment	Retrofit a new module into a previous generation frame	Flexible on-site adaptability to manage last minute installation constraints	Pre-engineered interconnection bars for straightforward installation
5-minute hot scale	Extremely flexible power module and battery module plug-in	Automatic firmware alignment and compatibility assured when scaling with a new module	Patented connection system allowing large power module plug-in
Risk-free maintenance	Plug-in battery pack for easy replacement or extension	Every component and module can be hot-swapped	Unique heat-run test service procedure to certify "hands off" maintenance
Superior resilience	20 years field-proven reliability across several different applications	Module MTBF certified by third party	Complete power module automatic and selective disconnection



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



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 (x2)
- Germany • India • Indonesia • Italy • Ivory Coast
- 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

SOCOMECC GROUP

SAS SOCOMECC capital 10 582 640 €
R.C.S. Strasbourg B 548 500 149
B.P. 60010 - 1, rue de Westhouse
F-67235 Benfeld Cedex
Tel. +33 3 88 57 41 41 - Fax +33 3 88 57 78 78
info.scp.isd@socomecc.com

YOUR DISTRIBUTOR / PARTNER

www.socomecc.com



100 years
OF SHARED ENERGY

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