

MODULYS GP

Ultra modular UPS

from 25 to 200 kVA/kW



Function

The MODULYS GP is an ultra-modular UPS engineered to outperform market reliability by up to 200 kW. With a MTBF of 1,000,000 hours, application restoration in just 2 minutes, and unparalleled flexibility, it ensures long-term protection and optimal TCO.

Advantages

Reliability 4x above the market

Power module:

- MTBF in excess of 1,000,000 hours, certified by an independent third party.
- Galvanic separation, both upstream and downstream.
- Fault isolation.

No single point of failure:

- Totally independent power module.
- No centralised parallel control.
- Seismic resistance, certified by an independent third party.

Application recovery in 2 minutes

Ultra-modular design:

- Hot-swappable power modules, auxiliary mains bypass and electronic boards.
- Electronics-free cabinet, eliminating any risk of failure.
- Full front access for ease of maintenance.
- Automatic self-configuration, firmware alignment and self-testing - no manual intervention required.

Unique to the market and risk-free process - third party certified:

- Safe operation at every stage.
- Off-powered connection to ensure zero electrical arcing.

Limitless flexibility to meet your needs

Effortless customisation:

- Pre-engineered and pre-tested components designed to address any customer any on-site customer requirements.

Complete flexibility:

- Configurable short-circuit withstand through a plug-in bypass module.
- Versatile cabling options: top, bottom, or mixed top/bottom.
- Grounding systems: TN-S, TN-C, IT, TT.
- Multiple energy storage technologies supported: VRLA, Li-Ion, Ni-Cd.

Built to last as long as your application

Forever Young concept ensures long-term investment and sustainability:

- Guaranteed compatibility for more than 20 years.
- Ongoing access to spare parts and dedicated technical support.
- Extend UPS lifespan by swapping aged components during operation - with no system shutdown.
- Modernise the UPS (e.g. with future super high-efficiency power modules) through simple swaps, without changing the entire system or installation.

The solution for

- > Building
- > Enterprise & Edge Data Centres
- > Healthcare
- > Infrastructure & Industry

Norms

- > EN/IEC 62040-1
- > AS 62040-1 EN/IEC 62040-2
- > AS 62040-2 IEC/IEE CB Scheme EN/IEC 62040-3
- > AS 62040-3

Certification

- > TUV SÜD
(Product Safety EN 62040-1
Safe and automatic module
hot swap, efficiency)



- > SERMA (1,000,000 H MTBF)
- > TeslaLab (short-circuit capability)
- > KEMA seismic
- > EU Elite UPS
- > ROHs, Reach
- > PEP ecopassport

Eligible Services

Our services guarantee the highest level of availability for your UPS:

- > Technical advice
- > Commissioning
- > Manufacturer training
- > Maintenance contracts including digital services

Sustainability advantages

- > Up to 72,9% recyclability potential
- > Energy saver mode to maximise UPS energy efficiency under low load
- > UPS lifecycle extended thanks to Forever Young concept
- > 1,000,000 MTBF results in 75% fewer replacements
- > Manufactured in line with ISO 14001 certification
- > Remote maintenance for reduced transport costs

General characteristics

- Dual input mains.
- Internal maintenance auxiliary mains bypass.
- Backfeed protection: detection circuit.
- EBS (Expert Battery System) for battery management.
- Auto battery test.
- Battery temperature sensor.
- Energy Saver mode.
- Seismic resistant (certified).

Standard communication features

- User-friendly 7" touch screen multilingual colour graphic display.
- Power Slot tricolour LED indicating Power Module status.
- 3 slots for communication options.
- USB port to download UPS reports and log files.
- Ethernet port for service purposes.

Communication options

- Dry-contact interface (configurable, voltage-free contacts).
- MODBUS RTU RS485 or MODBUS TCP.
- BACnet/IP interface.
- NET VISION: professional WEB/SNMP Ethernet interface for secure UPS monitoring and remote automatic shutdown.
- REMOTE VIEW PRO supervision software.
- IoT gateway for Socomec cloud services and the SoLive UPS mobile app.
- Remote touch screen panel.

Electrical options

- ACS synchronisation system.
- Internal backfeed isolation device.
- PEN kit for TN-C grounding system.
- Connection kit for common mains.

Environment adaptation options

- IP21 protection kit.
- Seismic kit.
- Top cabling cabinet.
- Top exhausted air cabinet.
- Environment temperature and humidity sensors.

Technical data

	MODULYS GP UPS SYSTEM
Power	25 to 200 kVA/kW
Number of power modules	1 to 8
Input/output	3/3
Redundant configuration	N+x
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% 3 ph+N
Frequency	50/60 Hz ±0.1%
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 with from 10% to 20%)
Frequency	50/60 Hz ± 2% (configurable for GenSet compatibility)
EFFICIENCY (TÜV SÜD VERIFIED)	
Online double conversion mode	Up to 96.5%
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	< 55 dBA
System CABINET	
Width	600 mm
Depth	890 mm
Height	1990 mm
Weight (empty cabinet)	210 kg
Degree of protection	IP20
STANDARDS	
Safety	IEC/EN 62040-1, AS 62040.1.1, AS 62040.1.2
EMC	IEC/EN 62040-2 Class C2, AS 62040.2
Performance	VFI-SS-111 - IEC/EN 62040-3, AS 62040.3
Seismic compliance	Uniform Building Code UBC:1997, CEI 60068-2-57:2013
Environmental	IEC/EN 62040-4
Product declaration	CE, RCM (E2376), EAC, UKCA
POWER MODULE	
Height	3U
Weight	34 kg
Type	Hot plug-in / Hot-swappable
MTBF	> 1,000,000 hours (calculated and verified)

Best practice award



Frost & Sullivan has awarded SOCOMEC with its prize for Innovation & Excellence in Developing Scalable, Best-in-Class Products and Solutions.

SOCOMECS's vast expertise and technological know-how in modular UPS solutions have enabled it to develop a new modular, three-phase UPS that employs the latest cutting-edge technology combined in a unique design and architecture.

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The benefits of a fully modular system

Easy to manage

- Totally modular system for power scaling or for quickly adapting to business changes.
- Standardised system and modules covering a wide range of power and backup times.
- Repeatable and standardised scalable architecture for the time-saving design different configurations and architecture requirements.

Pay for what you use

- No prior expenditure on unpredictable future extensions to power and backup time.
- Saves space thanks to reduced footprint and front access.
- Eliminates installation rework costs when new capacity is required from IT physical infrastructure.
- No risk of design oversizing due to project data uncertainty.

Complete front access

- Connections, switches, manual bypass, auxiliary mains static bypass, power modules and all electric parts are accessible from the front.
- Total footprint is not increased as no additional rear clearance is required for maintenance.
- Easy, quick, comfortable, safe and risk-free installation and maintenance.
- A more reliable system.

The benefits of a totally redundant design

Total resilience

- Electronics-free (failure-free) cabinet.
- Totally independent and self-sufficient modules.
- Real module selective disconnection (automatic inverter bypass with galvanic separation).
- No centralised control for parallel and load sharing management.
- Totally segregated, fully sized and centralised auxiliary mains bypass.
- Configurable N+1 to N+x redundancy (power & battery).
- No single point of failure.
- Redundant parallel bus connection (ring configuration).

Optimum reliability

- Power module designed for superior robustness proved by an independent body (MTBF > 1,000,00 hours).
- Hybrid bypass architecture with distributed module bypass and centralised mains bypass for the ultimate reliability and robustness.
- Highly robust auxiliary mains bypass (MTBF > 10,000,000 hours).
- Acid leak-proof modular battery box.

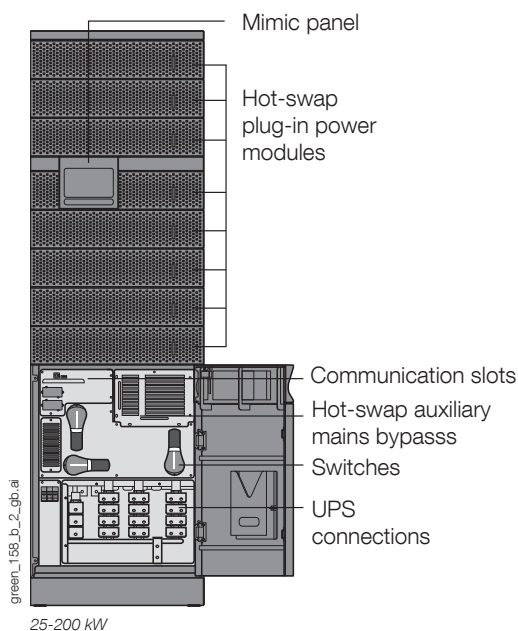
Maximum availability

- Rapid recovery of lost redundancy thanks to minimum MTTR (Mean Time To Repair).
- No risk of downtime during power upgrades and maintenance.
- No risk of failure propagation.

Cost-effective redundancy

- No need to duplicate system hardware to achieve redundancy.
- Redundancy achievable simply by adding one more power and battery module.
- Redundancy can easily be combined with power scalability.
- Upgrades and/or power module replacement can be carried out by simple plug-in without any commands to the system.

A flexible and modular UPS system

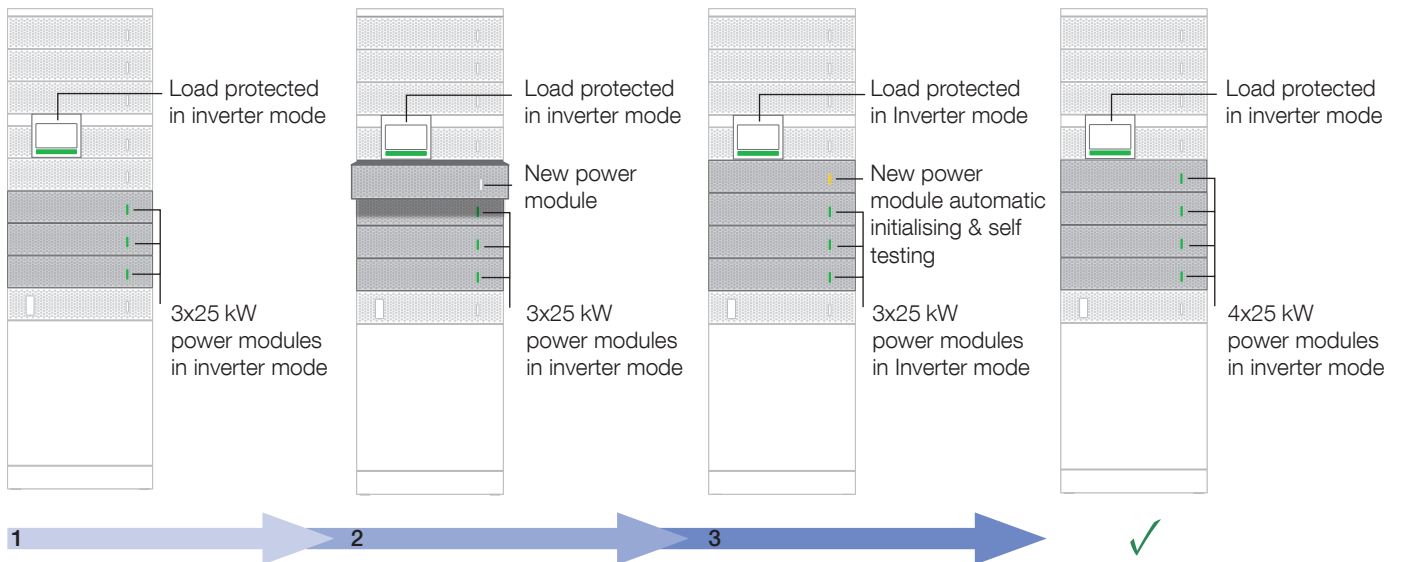


Seamless and risk-free scalability and upgrades

- MODULYS GP protects critical loads under all conditions, including during power upgrades and maintenance procedures.
- No risk of human error and downtime.

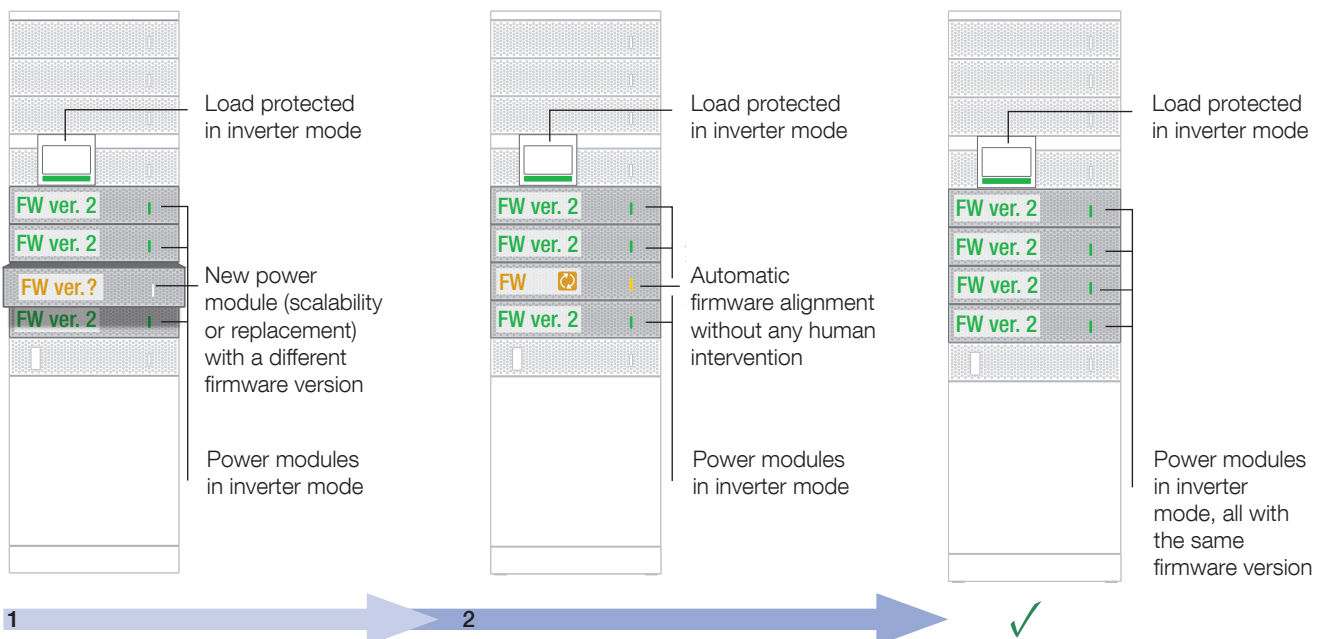
Online power scalability

- MODULYS GP allows you to increase power scalability and redundancy while keeping the load protected in inverter mode simply by plugging in a new power module and waiting for its automatic self-configuration, without any human intervention.



Power module automatic firmware alignment

- Even the power module firmware alignment is totally risk-free.
- When a new power module is plugged in, the system checks which firmware version is embedded and, if it is different, automatically aligns it to one of the other modules. The load is protected at all times while running in inverter mode.



Online global firmware update

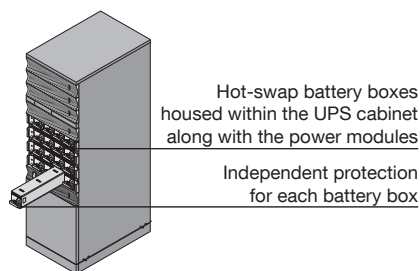
- It is also possible to upgrade the global firmware without switching to bypass in order to keep the load protected in inverter mode.
- Automatic procedure for a risk-free firmware upgrade.

Flexible and modular backup times

MODULYS GP offers modular solutions to meet all your backup time requirements (whether a few minutes or several hours) without compromising flexibility and scalability.

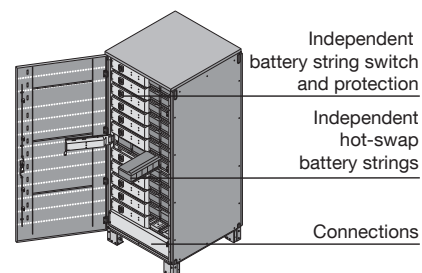
Internal hot-swap battery

- Designed for short backup times.
- Long-life batteries available as standard.
- Compact solution with a small footprint.



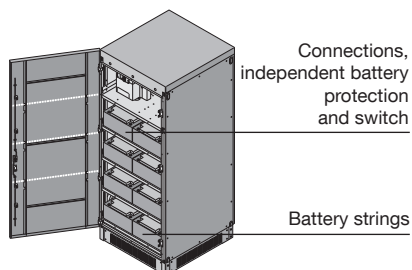
Modular hot-swap battery cabinets

- Designed for medium and long backup times.
- Long-life batteries available as standard.
- Vertical and horizontal modularity ensuring flexible backup times.



Modular battery cabinet

- Designed for long backup times.
- Long-life batteries available as standard.
- Horizontal modularity ensuring flexible backup times.



MODULYS GP “Forever Young” concept

- MODULYS GP excels in terms of efficiency, flexibility, capacity management and sustainability - five aspects that are crucial for optimum performance.
- It employs an exclusive concept called ‘Forever Young’ which allows the MODULYS GP’s lifecycle to be extended and eliminates the criticality of system end-of-life.
- It also keeps the system open for the implementation of future technology improvements without the need for infrastructure modification.

The ‘Forever Young’ concept:

- Based on electronics-free (failure-free) cabinets where the components that are subject to ageing are all plug-in and, therefore, quick and easy to replace.
- Allows lifecycle extension via periodic replacement of power modules before they start ageing.
- Provides a system that is always up-to-date and uses the latest technology.
- Assures power module and spare part compatibility and availability for more than 20 years.

