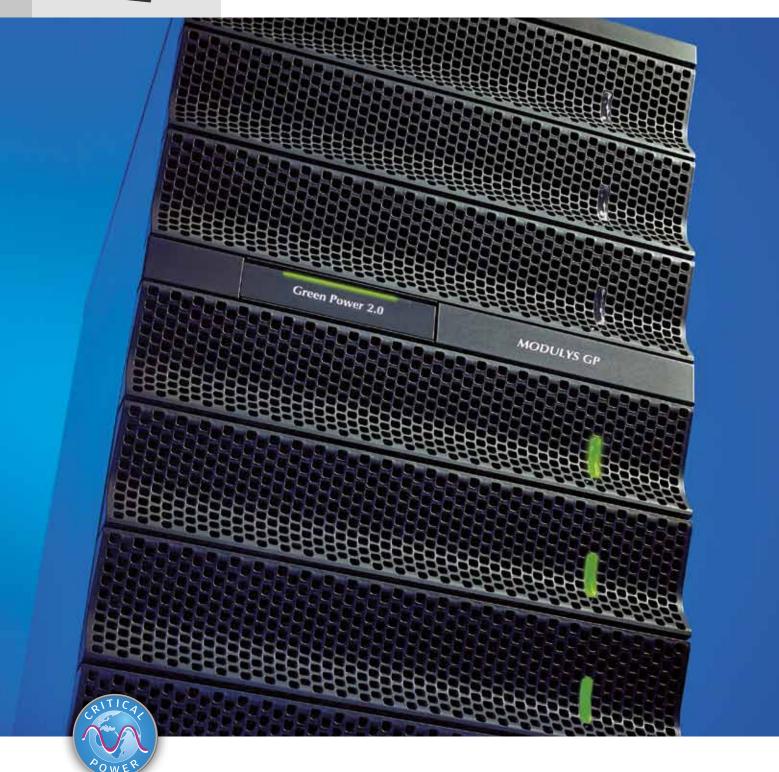


MODULYS GP

Green Power 2.0 range Modular UPS from 25 to 600 kW





Keep up with unpredictable evolutions in your IT infrastructure

Companies running high-performance computing systems or critical automated processes need solutions that match their application requirements. The constant changes involved means that data center, IT and facility managers face a complex balancing act: maximizing availability, keeping costs down and maintaining a flexible infrastructure.







Ensuring absolute business continuity

Maintaining the uptime of mission critical applications is a major concern for IT or data center managers.

Availability, reliability & quality as well as quick and risk-free maintainability of the power supply system are key factors in achieving this target.

Aligning capacity to business demand

IT technology changes are accelerating, putting pressure on the power infrastructure to keep pace.

Providing **flexibility** is essential to match short-term capacity and long-term growth requirements along with a cost-effective and fast deployment.

Optimizing costs over the full life cycle

Several challenges have to be met to **optimize the cost** of the power infrastructure, from design through to installation and operation.

Optimizing costs while meeting changes in performance demand and ensuring life-cycle extensions are key issues in data centers.

Access the expertise of the leading player in critical power infrastructure

SOCOMEC is a multi-technology specialist in power, electronics and energy performance systems with many years of experience in providing high availability power solutions.

SOCOMEC's commitment to continuous innovation provides data center customers with solutions and services that meet the increasing technological complexity and evolving power requirements of cloud computing facilities.





SOCOMEC for sustainability

The entire Green Power 2.0 UPS range is designed to operate in compliance with the EU Code of Conduct governing data centers for reducing energy consumption and associated carbon emissions. A fully accredited PEP Product Environmental Passport is available.







MODULYS GP

High availability for your business, cost-effective protection and flexible response to unpredictable demands



Fully modular system

- Plug-in power module.
- Plug-in battery module.
- Plug-in bypass module.
- Output distribution module.
- Top-bottom connection module.
- Top-air exhaust module.



'Forever Young' concept

- Based on set of modules + electronicsfree cabinet.
- Eliminates end-of-life criticality.
- Module compatibility guaranteed for 20 years.
- Allows for the implementation of future module technology.



Manufactured in Europe

Designed, developed and produced by SOCOMEC, a European specialist manufacturer with more than 20 years of experience in supplying modular solutions.



Totally redundant design

- N+1, N+2 redundancy level.
- Designed for no single point of failure.
- No centralized parallel control.
- Totally independent power modules.



Enhanced serviceability performance

- Fast & safe maintenance based on hot-swap modules.
- Ready for concurrent maintenance.
- Exclusive life cycle extension service program.



GREEN 105 B

Innovative solution

MODULYS GP is the innovative solution for protecting critical applications in computer rooms, data centers, banks, healthcare facilities, insurance, telecom.



From 25 to 600 kW.



Minimized energy consumption and cooling costs.



Unity power factor provides the best €/kW ratio.



Ready for Li-Ion battery.
Ultra-fast recharge
function.

The benefit of a fully modular system



Pay as you need

- No prior expenditure for unpredictable future extensions in power and back-up time
- Space saving thanks to reduced footprint with vertical modularity.
- Eliminate installation rework costs when new capacity is required from IT physical infrastructure.
- No risk of design oversizing due to project data uncertainty.



Easy to adapt

- Totally modular rack-mounting system for power scaling or for quickly adapting to business changes.
- Time-saving design for different configuration & architecture requirements.
- Flexible design for sizing adaptations each time project data is revised.
- Easy integration with physical IT infrastructures.
- Specifically designed for integration in hot aisle/cold aisle arrangements.
- Adaptable to different cooling strategies in hot aisle/cold aisle arrangements.



Easy to install

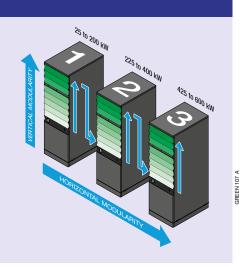
- Light, empty cabinets and independent modules for easy moving, on-site positioning and system assembling.
- Flexible solutions for adaptation to all types of infrastructure and environments: top or bottom entry cable management, integrated PDU for easy distribution to the IT racks.
- Flexible heat management for top air exhaust:
- wall configuration,
- supporting slim chimney for in-row configuration allowing busway, distribution on the top of the unit.
- On-site last minute modifications to meet any possible changes to power and back-up time.
- Automatic self-configuration power modules.

Vertical and horizontal scalability

With its vertical and horizontal modularity, the MODULYS GP range offers power scalability of up to 600 kW, ideal for unscheduled site upgrades or incremental power evolutions.

The installed power of a single system can be increased up to 200 kW by adding power modules for incremental steps of 25 kW.

Higher power and flexibility can be offered by putting up to 3 systems in horizontal parallel configuration to reach 600 kW.





A user-friendly graphic LCD panel provides easy access to detailed operating information.

A brightly colored light bar allows quick status determination even across a dark room.



Compactness and reduced footprint: power modules and battery packs can be installed together in the system cabinet.



Easy to manage

- Standardized rack system and modules covering a wide range of power and back-up times.
- Repeatable and standardized scalable architecture.
- Hot swap plug-in modules.
- Network connectivity for the integration of power system in physical or virtualized environments.



NET VISION interface allows:

- UPS connection to the Ethernet network.
- Installation supervision through web server or SNMP protocol.
- Alarm notification through e-mail.

The benefit of a totally redundant design



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



Optimum reliability

- Each module is checked by automatic testing systems.
- Power module designed for superior robustness proved by an independent body (MTBF > 600,000 hr).
- Highly robust bypass (MTBF > 10,000,000 hr)
- Acid leak-proof modular battery box.



Maximum availability

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



Cost-effective redundancy

- No need to duplicate the system hardware to get redundancy.
- Redundancy achievable just by adding one more power and battery module.
- Redundancy can be easily combined with power scalability.



UPS system

- 1. Mimic panel
- 2. Hot swap plug-in power modules
- 3. Hot-swap bypass
- 4. Switches
- 5. UPS connections
- 6. Communication

Battery cabinet

- 7. Battery connections
- 8. Battery string protection
- 9. Battery string switches
- **10.** Bays for hosting hot-swap battery strings

The benefit of an enhanced serviceability



Uptime guaranteed

- Anticipate anomaly detection via remote monitoring and diagnostic.
- Rapid response to site to limit risks affecting the availability.
- Maintenance based on independent hot-swap modules.
- Quick repair time guaranteed (low MTTR) thanks to plug-in modules.
- Safe maintenance: full load protection and business continuity (on-line maintenance).



Optimized maintenance costs

- Savings in Total Cost of Ownership compared to traditional redundant architecture.
- Easier to budget global maintenance plan over a multi-year period.
- Tailored service program adapted to specific applications (SLA requirement).



Assisted on-site system upgrades

- Upgrade safely system power and back-up with expertise on electrical installation.
- Assisted fast deployment in case of power scalability requirement.
- Professional advice on statistic system usage and electrical input and output protection sizing.
- Fast response time to site to meet unpredictable application changes.





Extended system life cycle

- Exclusive service program with the "Forever Young" concept for eliminating system end-of-life criticality.
- Periodic renewal, with complete module replacement using the latest technology.
- Spare part compatibility/availability quaranteed for more than 20 years
- Continuous system care & monitoring of electronic component aging based on specific usage conditions.



Access a manufacturer's expertise

Expert service engineers

- 370 Socomec service engineers in 20+ subsidiaries.
- 175 Business Partner service engineers in 70+ countries.
- 3,500 hours of technical training provided per year (product, methodology and safety).

Technical hotline network

- 20+ languages spoken by Socomec's technical hotline staff.
- 3 advanced technical support centers.
- 90,000+ incoming calls handled per year.

Services

- Specialist team of engineers on call 24/7.
- Technical expertise on site in max 6 hours guaranteed.
- Power quality and thermal imaging audit.
- On-site tests, commissioning and training.
- Certified preventive maintenance visit.
- Remote monitoring and proactive diagnostic.
- Corrective maintenance with original spare parts.
- 24/7 original spare part stock availability.
- High priority spare part shipment.



101 V

Please check service coverage for your area

Technical specifications

	Gree	Green Power 2.0 MODULYS GP		
		UPS SYSTEM		
Power (Sn)		25 to 200 kVA		
Power (Pn)	25 to 200 kW			
Number of power modules	1 to 8			
Input / output		3/3		
Redundant configuration	N+x			
Parallel configuration	up to 600 kW (up to 3 systems)			
NPUT				
Voltage		400 V 3ph (340 V to 480 V)		
Frequency	50/60 Hz ±10%			
Power factor / THDI		> 0.99 / < 3%		
OUTPUT				
Voltage	380/400/415 V ±1% 3ph+N			
Frequency		50/60 Hz ±0.1%		
Voltage distortion	< 1% (linear load).	< 1% (linear load), < 4% (non-linear load according IEC 62040-3)		
Short-circuit current	(,,	up to 3 x ln		
Overload ⁽¹⁾	125% for 10 minutes, 150% for 1 minute			
Crest factor	3:1			
BYPASS		0.1		
Voltage	rated output voltage ±15% (configurable with from 10% to 20%)			
Frequency		50/60 Hz ±2% (configurable for GenSet compatibility)		
EFFICIENCY (TÜV SÜD VERIFIED)	30/00 HZ ±Z	70 (configurable for defider (companionity)	
Online double conversion mode	up to 96.5%			
ENVIRONMENT		up to 30.370		
Ambient temperature	0 °C to 40 °	C (1E to 2E °C for maximum	hottony life\	
	0 °C to 40 °C (15 to 25 °C for maximum battery life) 0 to 95% without condensation			
Relative humidity				
Maximum altitude	1000 m without derating (3000 m max) < 55 dBA			
Acoustic level at 1 m		< 55 UBA		
JPS CABINET		000 000 1075		
Dimensions W x D x H	600 x 890 x 1975 mm			
Weight (empty cabinet)	210 kg			
Degree of protection		IP20		
STANDARDS				
Safety		EN 62040-1, EN 60950-1		
EMC	EN 62040-2 Class C2			
Performance	EN 62040-3 (VFI-SS-111)			
Product certification		CE		
POWER MODULE				
Height	3U			
Weight	34 kg			
Туре	Hot plug-in / Hot-swappable			
MTBF	> 600 000 hours (calculated and verified)			
BATTERY MODULE				
Туре	Acid leak-proof - Long Life batteries			
Protection	Single fuse for each battery box			
		BATTERY CABINETS		
	S modular	M modular	High capacity	
	battery cabinet	battery cabinet	battery cabinet	
Dimensions W x D x H	600 x 890 x 1975 mm	810 x 910 x 1975 mm	810 x 910 x 1975 mm	
Number of battery bays	12	12	Blocks	

(1) Conditions apply





Socomec: our innovations supporting your energy performance

1 independent manufacturer

3,200 employees

0 % of sales revenue dedicated to R&D

400 experts dedicated to service provision

Your power management expert









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

YOUR DISTRIBUTOR / PARTNER

- 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 (x3)

27 subsidiaries

- Australia Belgium China France
- Germany India Italy Netherlands
- Poland Romania Singapore
- Slovenia Spain Switzerland Thailand
- Tunisia Turkey UK USA

80 countries where our brand is distributed

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