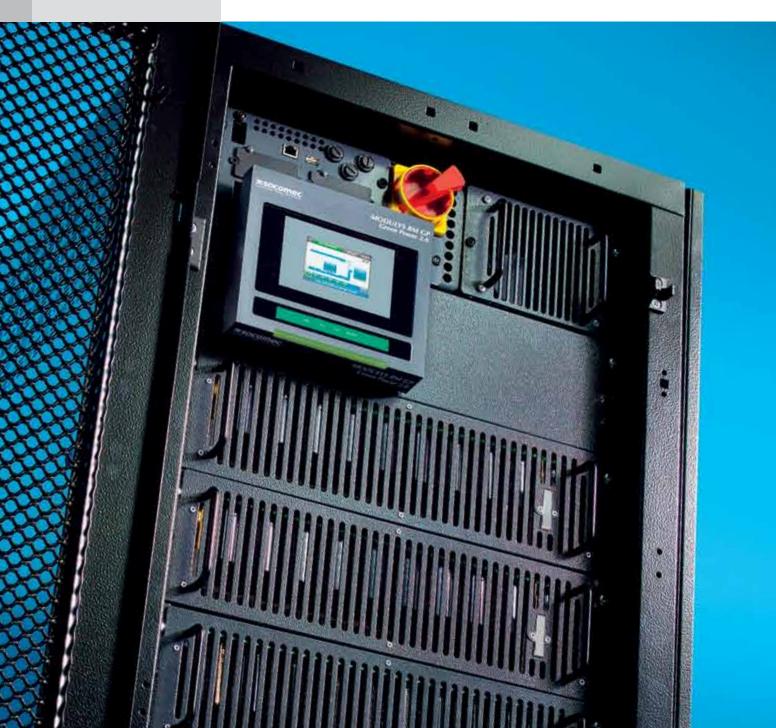


MODULYS RM GP

Rack-mounted modular UPS system Green Power 2.0 range up to 4 x 25 kW













19" rack integration capabilities for protecting critical loads

MODULYS RM GP is a 3-phase modular UPS system designed for 19" rack integration. Easy to integrate and install whilst simple to manage and maintain, it provides maximum availability and power protection in a compact design leaving free space for other rack-mounted devices.



Easy and no-risk integration

IT networking, data server racks, critical power distribution, process control and protection... There are many sorts of applications and levels of customisation when it comes to a 19" rack cabinet arrangement.

MODULYS RM GP is designed for providing easy and fully-assured rack integration to meet all requirement across multiple applications, even for existing installations.

Flexibility and fewer parts

The integration of different items of equipment in common racks requires different installation modes which can be hard to carry out and time consuming. It also means a complex Bills of Materials to manage.

MODULYS RM GP has been specifically engineered to **simplify** and **optimise** every step of **the integration process** - from sizing to installation, including the logistics, making project management easy, risk-free and economic.

Total power protection

The availability of a reliable electrical power supply is essential for critical applications and has to be ensured in all conditions.

MODULYS RM GP is a totally modular UPS system. With its no single point of failure design, it provides reliable power whilst ensuring optimum load protection even during power upgrades or maintenance procedures.

Benefit from 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 centre 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 centres for reducing energy consumption and associated carbon emissions. A fully accredited PEP Product Environmental Passport is available.







MODULYS RM GP

Rack-mounted modular UPS system for easy, fully-assured and time-saving integration





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



Full rack integration

- Designed for easy and no-risk integration in 19" rack cabinets.
- Total compatibility with any 19" standard rack cabinet.
- High power density.
- Easy to manage, integrate and customise.
- Flexible simplified cabling.



Overall cost optimisation

- Time saving integration process.
- No risk of cost and budget overruns.
- Compact solution saving valuable space.
- Simplified logistics.
- Easy integration: avoids costly set-up and reworking.



Totally redundant design

- N+1 redundancy level.
- Designed for no single point of failure.
- No centralised 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 programme.



'Forever Young' concept

- Based on an electronics-free sub-rack enclosure + a set of plug-in parts.
- Eliminates end-of-life criticality.
- Module compatibility guaranteed for 20+ years.
- Allows for the implementation of future module technology.

To find out more

Visit our website

www.socomec.com/modular-scalable-upssystems_en.html



The benefit of a system designed for 19" rack integration



Easy to integrate

- Specifically designed for integration in 19" standard rack cabinets.
- Adjustable rails and mounting accessories.
- High power density (>6 kW/U).
- Low weight for easy integration.
- Pre-cabled system for simplified connections.
- Flexible cabling management for top, bottom and mixed top/bottom entry cable.
- Integrated cables organiser for tidy connections.
- Low power dissipation (<40 W per supplied kW).



No-risk integration

- Assured compatibility with any 19" standard rack cabinet.
- Pre-engineered and lab-tested parts assuring total system reliability.
- Automatic self-configuration power modules.
- No risk of design oversize due to project data uncertainty thanks to power module scalability.

Pre-cabled system for simplified connections





Easy to customise

Complete set of pre-engineered and pretested parts to meet any customer need:

- modular Power Modules,
- special power modules with extra battery charger for extremely long BUT,
- plug-in J-BUS communication board for BMS integration,
- plug-in SNMP board for UPS monitoring and shutdown management,
- plug-in programmable dry-contact board,
- environmental sensors,
- blank panels (covers for empty slots),
- rack-mounted battery modules,
- external battery cabinet,
- isolation transformer,
- bypass redundant cooling.

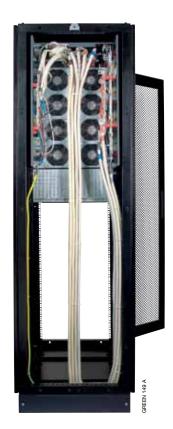


Easy to manage

- Full documentation package including schematics, integration instructions, technical sheets, etc.
- Factory-set configurations for easy model selection.
- Full set of pre-engineered options for easy product customisation.







Rear view (before adding rear protective cover). Flexible cabling management for easy connections and tidier cabling.



Overall cost optimisation

- Compact sub-rack enclosure saving valuable cabinet rack space.
- 2 sub-rack enclosure models for optimum sizing.
- Best-in-class €/kW ratio thanks to high power density and PF=1.
- Cost-optimised solution for minimum initial investment.
- Plug & Play and self-configuration power modules for easy and time saving system set up.
- Pre-engineered and lab-tested parts for easy and time saving customisation.
- Repeatable and standardised architecture for time saving design and know-how capitalisation.



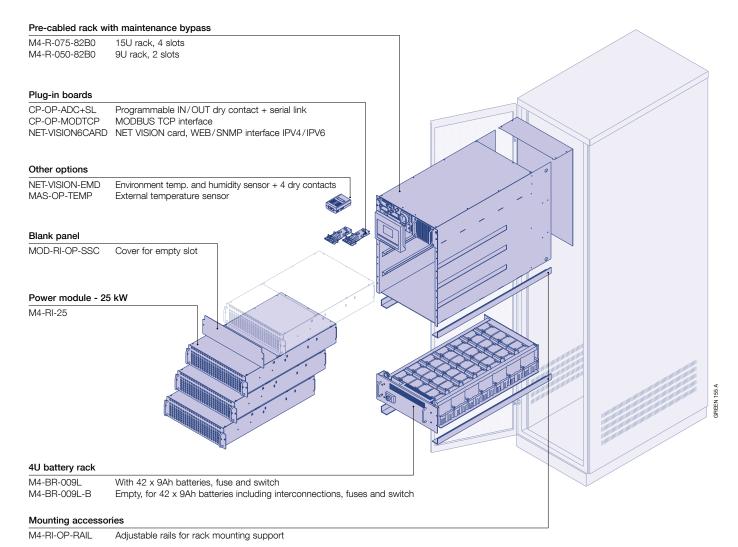
Simplified logistics

- Fewer standardised parts for easy ordering.
- Parts always in stock for fast procurement.
- Fewer parts covering a wide range of configurations, power, back-up time and options.
- Once integrated in the 19" rack cabinet, MODULYS RM GP can be safely shipped with the power modules plugged in.

Compact 15U sub-rack enclosure

Designed for complete integration in any 19" standard rack cabinet.





SOCOMEC - MODULYS RM GP

The benefit of a system designed to assure absolute business continuity



Total resilience

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



Pay as you need

- Totally modular rack-mounting system for power scaling or for quickly adapting to business changes.
- No prior expenditure for unpredictable future extensions in power and back up time.
- No need to duplicate the system hardware to get redundancy.



Enhanced serviceability performance

- Electronics-free (failure-free) sub-rack enclosure with plug-in bricks.
- Fast and safe maintenance based on hot-swap parts (power modules, bypass, electronic boards, batteries).
- Safe and risk-free maintenance:
 - only sealed box is replaced,
- no exposed live parts.
- Concurrent maintenance: no need to switch on static bypass or maintenance bypass.
- Battery can be hot-swapped without shutting down the connected equipment.



Optimum reliability

- Power module designed for superior robustness verified by an independent body (MTBF > 1,000,000 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.



Hot-swap power modules, bypass and batteries in an electronics-free system: no single point of failure and risk-freedfsdfe maintenance.

50 years manufacturer expertise in Critical Power care

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 centres.
- 90,000+ incoming calls handled per year.

Services

- Specialist team of engineers on-call 24/7.
- Technical expertise on-site in under 6 hours guaranteed⁽¹⁾.
- 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.



(1) Please check the service coverage in your area.

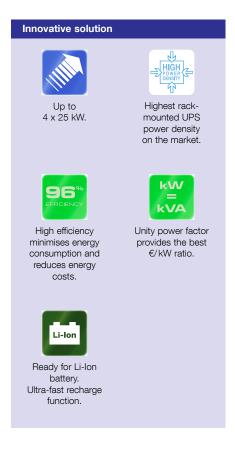
Technical specifications

References

ARTICLE	DESCRIPTION	
M4-R-075-82B0	15U rack - 4 slots - Pre-cabled with maintenance bypass switch	
M4-R-050-82B0	9U rack - 2 slots - Pre-cabled with maintenance bypass switch	
M4-RI-25	Plug-in power module 25 kW	
MOD-RI-OP-SSC	Blank panel - Cover for empty slot	
M4-BR-009L	4U battery rack 42 x 9 Ah with fuses and switch	
M4-BR-009L-B	Empty 4U battery rack ready for 42 x 9 Ah, including interconnections, fuses and switch	
M4-RI-OP-RAIL	Adjustable rails for rack mounting support	
CP-OP-ADC+SL	Plug-in board - Programmable IN/OUT dry-contact + serial link	
CP-OP-MODTCP	Plug-in board - MODBUS TCP interface	
NET-VISION6CARD	Plug-in board - NET VISION card WEB/SNMP interface IPV4/IPV6	
NET-VISION-EMD	Environment temperature and humidity sensor + 4 input dry contacts	
MAS-OP-TEMP	External temperature sensor	

Technical data

	MODULYS RM GP		
Model	9U	15U	
Number of power modules	1 to 2 x 25 kW	1 to 4 x 25 kW	
Configuration	N, N+1 redundant		
Power (Sn)	25 to 50 kVA	25 to 75 kVA	
Power (Pn)	25 to 50 kW	25 to 75 kW	
Input/output	3	/3	
INPUT			
Voltage	400 V 3ph (340 V to 480 V)		
Frequency	50/60 Hz ±10 %		
Power factor/THDI	> 0.99	1/<3%	
OUTPUT			
Voltage		380/400/415 V ±1 % 3ph+N	
Frequency	50/60 Hz ±0.1 %		
Voltage distortion	< 1 % (linear load), < 4 % (non-linear load according to IEC 62040-3)		
Short-circuit current	up to 3 x ln		
Overload	125% for 10 minutes, 150% for 1 minute 3:1		
Crest factor	3	:1	
HOT-SWAP BYPASS	B. I. I. II. 150//	f 11 (100/1 000/)	
Voltage	Rated output voltage ±15% (configurable from 10% to 20%) 50/60 Hz ±2% (configurable for GenSet compatibility)		
Frequency			
Weight	7 kg	7.5 kg	
EFFICIENCY (TÜV SÜD VERIFIED)		00 50/	
Online double conversion mode	up to	96.5%	
ENVIRONMENT	0.001, 40.00 (451, 05.00	Steering to the Heat Plant	
Ambient temperature	0 °C to 40 °C (15 to 25 °C for maximum battery life)		
Relative humidity Maximum altitude	0 to 95% without condensation		
Acoustic level at 1 m	1000 m without derating (3000 m max) < 53 dBA		
UPS RACK	< 53	UDA	
	442 mm v 000 mm v 0 II	440 mm v 000 mm v 15 II	
Dimensions W x D x H	442 mm x 920 mm x 9 U	442 mm x 920 mm x 15 U	
Weight (empty cabinet) Degree of protection	36 kg 42 kg		
HOT-SWAP POWER MODULE	ii.	20	
	a	DII .	
Height Weight	3U 34 kg		
Type	34 kg Hot plug-in/Hot-swappable		
MTBF	> 1000000 hours (calculated and verified)		
HOT-SWAP BATTERY RACK	> 1000000 110018 (08	alouidiou dilu voilliou)	
Type	Acid leak-proof -	I ong I ife hatteries	
Protection	Acid leak-proof - Long Life batteries Independent protection for each battery string		
Dimensions W x D x H	442 mm x 890 mm x 4 U		
Weight (empty rack)	15 kg		
STANDARDS	10	שיי	
Safety	FN 62040-1	FN 60950-1	
EMC	EN 62040-1, EN 60950-1 EN 62040-2 Class C2		
Performance	EN 62040-2 (VFI-SS-111)		
	CF		







Green Power 2.0 MODULYS RM GP module is certified by TÜV SÜD with regard to product safety (EN 62040-1).

Green Power 2.0 MODULYS module efficiency & performance are tested and verified by TÜV SÜD.



SERMA TECHNOLOGIES

Green Power 2.0 MODULYS RM GP module MTBF is calculated and verified 1,000,000 hours by SERMA TECHNOLOGIES (IEC 62380).



Socomec worldwide

IN EUROPE

BELGIUM

Critical Power / Power Control & Safety / Energy Efficiency

Tel. +32 2 340 02 30 Fax +32 2 346 28 99 info.be@socomec.com

FRANCE

Critical Power / Power Control & Safety / Energy Efficiency

Tel. +33 1 45 14 63 00 Fax +33 1 48 67 31 12 dcm.ups.fr@socomec.com

GERMANY

Critical Power

Tel. +49 621 71 68 40 Fax +49 621 71 68 444 info.ups.de@socomec.com

Power Control & Safety / Energy Efficiency

Tel. +49 7243 65292 0 Fax +49 7243 65292 13 info.scp.de@socomec.com

ITALY

Critical Power

Tel.+39 02 98 242 942 Fax +39 02 98 240 723 info.ups.it@socomec.com

Power Control & Safety / Energy Efficiency

Tel.+39 02 98 49 821 Fax +39 02 98 24 33 10 info.scp.it@socomec.com

NETHERLANDS

Critical Power / Power Control & Safety / Energy Efficiency

Tel. +31 30 760 0900 Fax +31 30 637 2166 info.nl@socomec.com

POLAND

Critical Power

Tel. +48 22 825 73 60 Fax. +48 22 825 73 70 info.ups.pl@socomec.com

Power Control & Safety / Energy Efficiency

Tel. +48 91 442 64 11 Fax +48 91 442 64 19 info.scp.pl@socomec.com

PORTUGAL

Critical Power / Power Control & Safety / Energy Efficiency

Tel.+351 261 812 599 Fax +351 261 812 570 info.ups.pt@socomec.com

ROMANIA

Critical Power / Power Control & Safety / Energy Efficiency

Tel. +40 21 319 36 88 Fax +40 21 319 36 89 info.ro@socomec.com

SERBIA

Critical Power / Power Control & Safety / Energy Efficiency

Tel. +381 11 40 43 246 Fax +381 11 40 43 245 info.rs@socomec.com

SLOVENIA

Critical Power / Power Control & Safety / Energy Efficiency

Tel. +386 1 5807 860 Fax +386 1 561 11 73 info.si@socomec.com

SPAIN

Critical Power / Power Control & Safety / Energy Efficiency

Tel. +34 93 540 75 75 Fax +34 93 540 75 76 info.es@socomec.com

SWITZERLAND

Critical Power

Tel. +41 44 745 40 80 Fax +41 44 745 40 85 info@socomec.ch

TURKEY

Critical Power / Power Control & Safety / Energy Efficiency

Tel. +90 216 540 71 20-21-22 Fax +90 216 540 71 27 info.tr@socomec.com

UNITED KINGDOM

Critical Power

Tel. +44 1285 863 300 Fax +44 1285 862 304 info.uk@socomec.com

Power Control & Safety / Energy Efficiency

Tel. +44 1462 440 033 Fax +44 1462 431 143 info.uk@socomec.com

IN ASIA PACIFIC

AUSTRALIA

Critical Power / Power Control & Safety

Tel. +61 2 9325 3900 Fax +61 2 9888 9544 info.ups.au@socomec.com

CHINA

Critical Power / Power Control & Safety / Energy Efficiency

Tel. +86 21 52 98 95 55 Fax +86 21 62 28 34 68 info.cn@socomec.com

INDIA

Critical Power / Power Control & Safety / Energy Efficiency

Tel. +91 44 39215400 Fax +91 44 39215450 & 51 info.in@socomec.com

SINGAPORE

Critical Power / Power Control & Safety / Energy Efficiency

Tel.+65 6506 7600 Fax +65 64 58 7377 info.sg@socomec.com

THAILAND

Critical Power

Tel. +66 2 941 1644 7 Fax +66 2 941 1650 info.ups.th@socomec.com

IN MIDDLE EAST

UNITED ARAB EMIRATES

Critical Power / Power Control & Safety / Energy Efficiency

Tel. +971 4 29 98 441 Fax +971 4 29 98 449 info.ae@socomec.com

IN AMERICA

USA, CANADA & MEXICO

Power Control & Safety / Energy Efficiency

Tel. +1 617 245 0447 Fax +1 617 245 0437 info.us@socomec.com

OTHER COUNTRIES

NORTH AFRICA

Algeria / Morocco / Tunisia info.naf@socomec.com

11 110.1 Id1@300011160.001

AFRIC/

Other countries

info.africa@socomec.com

SOUTH EUROPE

Cyprus / Greece / Israel / Malta info.se@socomec.com

SOUTH AMERICA

Tel. +34 93 540 75 75 info.es@socomec.com

MORE DETAILS

www.socomec.com/worldwide

HEAD OFFICE

SOCOMEC GROUP

SAS SOCOMEC capital 10 686 000 € R.C.S. Strasbourg B 548 500 149 B.P. 60010 - 1, rue de Westhouse F-67235 Benfeld Cedex - FRANCE Tel. +33 3 88 57 41 41 Fax +33 3 88 74 08 00 info.scp.isd@socomec.com

YOUR DISTRIBUTOR / PARTNER















