BROCHURE

MASTERYS GP4

Three-phase UPS from 10 to 250 kW

When **energy** matters

socomec
Innovative Power Solutions

Power that performs.
Today and over time

With energy demands rising across IT, industry and infrastructure, electrical continuity has never been more critical — or more complex to manage. Organisations now require power protection that delivers reliable performance, high energy efficiency and cost control, while contributing to ambitious sustainability goals.

These expectations can only be met through solutions that are robust, intelligent, and ready to evolve. That's why long-term performance, simplified operation and seamless integration have become essential pillars in the design of modern UPS systems.

MASTERYS GP4
160-250 kVA
External battery

MASTERYS GP4 HE
200-250 kVA
External battery

MASTERYS GP4
10-40 kVA
External battery

MASTERYS GP4
60-80 kVA
Internal battery

MASTERYS GP4
10-40 kVA
Internal battery

Reliable by design.
Efficient by nature.

MASTERYS GP4 range

The perfect balance of certified reliability, energy efficiency, digital integration and service simplicity.
This unique combination of features ensures long-term protection —not only through high electrical performance and energy savings, but also by reducing service time and simplifying operation.

Superior reliability

Designed to operate with no single point of failure and certified by independent bodies — with up to 350,000 hours MTBF, full-rated performance at 40 °C, and seismic resistance up to Zone 4.

Ease of operation

Full front access, modular internal design and intuitive interface make installation, commissioning and maintenance faster and safer — with significantly reduced downtime across the range.

Versatility

IoT-ready, battery-agnostic, and parallel-ready to adapt to any environment and evolving needs.

Efficiency redefined

Up to 97.5% in VFI mode and up to 99% with Smart Conversion Mode — a Socomec innovation that reduces losses while maintaining full protection, certified Class 1 (IEC 62040-3).

99%
efficiency
with Smart Conversion Mode

97.5%
efficiency in VFI mode
with the high efficiency version

350,000h
MTBF
for long-term reliability

Redefining efficiency
for sustainable and secure operations

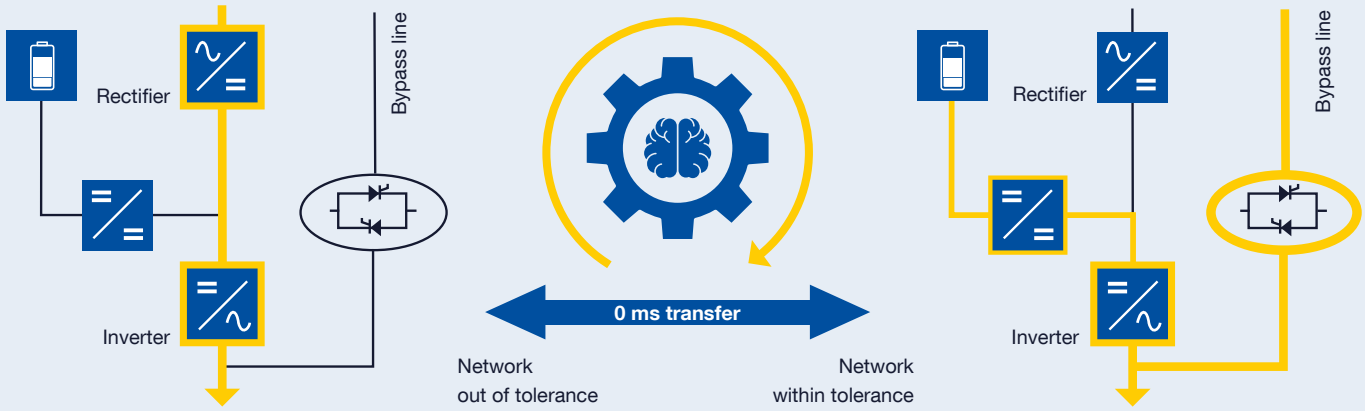
In today's energy-conscious environments, reducing energy use without compromising protection is essential. ***MASTERYS GP4*** **introduces Smart Conversion Mode — an exclusive Socomec innovation delivering unmatched efficiency and Class 1 certified protection.** By dynamically selecting the optimal operating mode, it minimises energy losses, reduces cooling needs, and lowers TCO, while guaranteeing full protection of critical loads at all times.

Smart Conversion Mode*
for uninterrupted protection and maximum efficiency

Up to 99% efficiency

Unlike standard ECO modes that bypass the inverter completely, Smart Conversion Mode continuously monitors the grid, keeping the inverter active and ready to react instantly to disturbances.

- Inverter always on — 0 ms transfer time to VFI
- Class 1 certified (IEC 62040-3) for sensitive loads
- Energy savings without compromise
- Full protection even under poor grid conditions



* available for MASTERYS GP4 200-250 kVA.

… and also

High Efficiency
– for installations requiring permanent VFI operation

MASTERYS GP 200-250 kVA HE achieves **up to 97.5% efficiency in VFI mode** with uncompromised protection, reducing energy bills and carbon footprint in the most demanding environments.

+

Up to 97,5% efficiency in VFI mode

Superior reliability

Proven performance by architecture

When your critical loads can't fail, reliability isn't optional. ***MASTERYS GP4*** safeguards your operations through fault-tolerant architecture, TÜV-certified performance, and built-in redundancy — delivering peace of mind, even in the harshest environments.

Certified **high availability**

With an MTBF of up to 350,000 hours in VFI mode, verified by TÜV SÜD, ***MASTERYS GP4*** guarantees long-term operational continuity.
This certification confirms the system's ability to operate for years with minimal risk of unexpected shutdowns — protecting your investment and your processes.

Intrinsic **redundancy**

MASTERYS GP4's modular architecture is based on independent power bricks, each operating under distributed control.
Any potential fault is detected inside the affected sub-assemblies, keeping the critical load protected in double conversion mode thanks to the remaining power converters.

- 60-80 kW: **Up to 50%** of the load
- 100 - 120 - 200 kW : **up to 66%** of the load
- 160 - 200HE -250 kW: **up to 75%** of the load
- 250 kW HE: **up to 80%** of the load

Built-in robust **static bypass**

A powerful, fully integrated static bypass secures continuous protection during overload, fault, or maintenance events.
This design ensures seamless transfer to bypass without compromising load protection.

Certified seismic resistance **- Zone 4**

MASTERYS GP4 units have successfully passed a series of rigorous testing programs to verify their ability to withstand seismic events. These tests were performed by accredited laboratories in compliance with the most demanding standards — covering Zone 4, the highest level of seismic activity classification.
When the testing is complete, the UPS must remain fully intact and in perfect working condition.
This proven resilience ensures that, even in the event of severe seismic activity, your critical loads remain protected and operational.

Versatility
adaptable by design

In critical power applications, adaptability is key to maximising system value over time. *MASTERYS GP4* has been engineered to fit seamlessly into a wide range of environments, architectures, and operational constraints. With full IoT connectivity, flexible battery options, and scalable configurations, it delivers a tailored solution that evolves with your needs — ensuring optimum performance and protection in every scenario.

IoT-ready **for connected services**

MASTERYS GP4 is IoT-ready. That enables instant access to Socomec's suite of digital services for advanced and real-time remote monitoring.

SoLive free real-time monitoring app for Socomec equipment

SoLink 24 / 7 UPS remote monitoring by Socomec experts

Easy integration into LAN/WAN and virtualised environments

MASTERYS GP4 is designed to integrate seamlessly into modern IT and industrial infrastructures. Its open connectivity and virtualisation-ready architecture ensure smooth communication with building management systems (BMS), IT networks, and cloud-based platforms.

- **Native compatibility** with standard communication protocols ensures easy deployment in any LAN/WAN environment.
- **Virtualisation support** allows the UPS to be monitored and managed within existing IT frameworks, simplifying supervision for data centers and critical facilities.
- **Scalable and secure connectivity** makes ***MASTERYS GP4*** a natural fit for both centralised monitoring and distributed installations.

Scalable architecture and easy integration

To match evolving infrastructures, ***MASTERYS GP4*** offers:

\+

Up to 6 units in parallel
delivering scalable performance and unmatched reliability

\+

20+ options of brick and accessory
for a tailor-made installation

\+

Flexible cabling
(top or bottom entry) and grounding compatibility (TN-C / TN-S / IT / TT) to fit any site constraint

\+

IP21 protection level
for reliable operation in demanding environments

Compatibility with Li-Ion battery technology
for the most demanding applications

MASTERYS GP4, fully compatible with the Li-Ion Battery, when connected, includes an interactive control system to check and manage all the Li-Ion cells and system parameters.

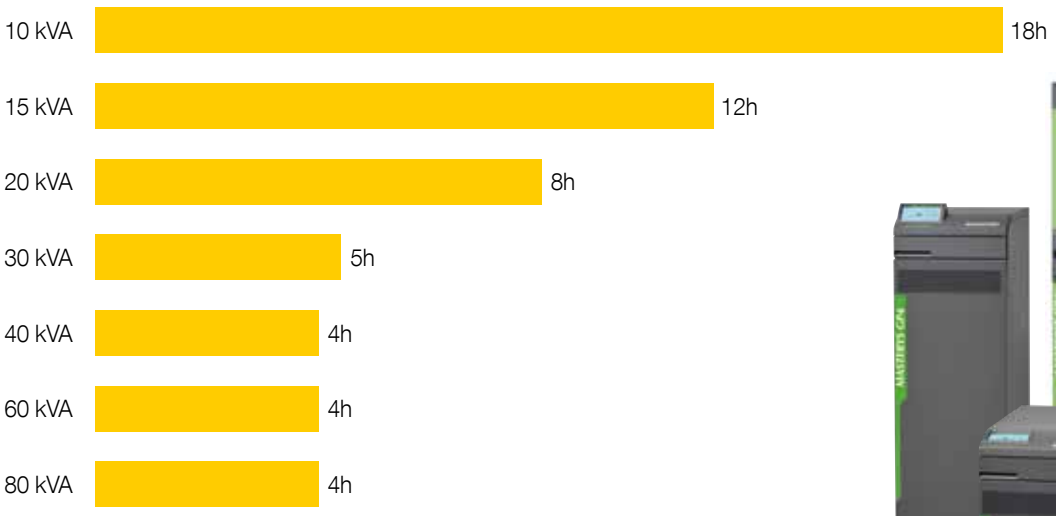
High power / energy density	More space for servers & IT reduce weight and floor space for the same runtime
Longer life span	Save replacement costs
Higher working ambient temperature	CAP & OPEX savings Li-Ion batteries are less sensitive to higher temperatures and require less cooling
Short recharge time High cycling capacity	Higher UPS availability
Embedded monitoring	Increased reliability
Eco friendly	Suitable for green data centres

Up to 70% space savings

Up to 50% TCO reduction

Flexible back-up time

MASTERYS GP4 adapts to your site and growth plan thanks to: extended back-up configurations and scalable run-time — with no need for external battery cabinets up to 80 kVA.



**values considering a charging current of 5% C_{10}*

- Several optimised choices for standard internal battery configuration.
- Increased internal battery density for reduced footprint and simplified installation.
- Internal basic autonomy available up to 80 kVA - without additional external battery cabinets.
- High recharging current option for very long autonomy.

Ease of service

Streamlined maintenance and intuitive operation

In critical power applications, serviceability is just as important as performance. *MASTERYS GP4* is engineered to make every stage — from commissioning to maintenance — faster, safer, and more intuitive. With full front access, modular "brick-based" architecture, and a multilingual touchscreen interface, downtime is drastically reduced while operator confidence is maximised.

Fast **commissioning**

Optimised design and pre-engineered connections make installation quick and error-free, reducing project timelines and start-up risks.

Intuitive **operation**

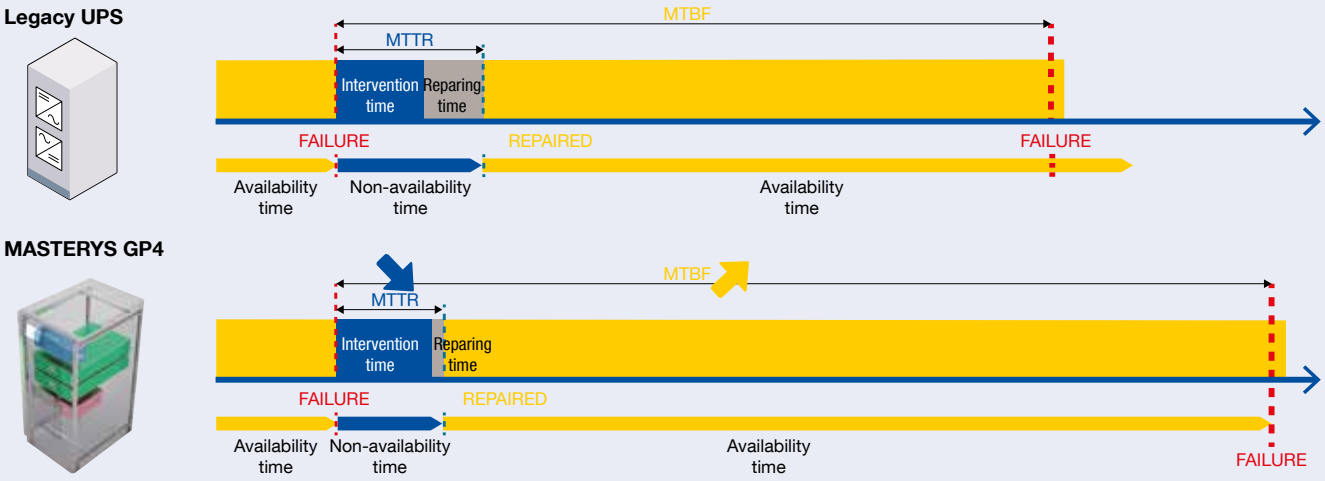
A large 7" colour touchscreen with more than 25 languages provides clear, guided navigation for configuration, monitoring, and diagnostics.

Full front **access maintenance**

All maintenance tasks can be carried out from the front of the UPS, saving floor space and improving technician safety.

Brick-based **modularity**

Independent, hot-swappable power bricks allow faulty modules to be replaced without affecting others — enabling up to 5× faster repairs.



** VFI (Voltage and Frequency Independent) is the only UPS working-mode that assures total load protection against all possible mains quality problems.*

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 labour and travel costs when responding to breakdowns.

PLATINIUM

The PLATINIUM plan includes spare parts, labour and travel. For the most critival applications, optional 24/7 hotline and up to 4 hours on site response time are available.

Elevate your experience with Socomec Digital Services

APPLI 1080

Natively included in the maintenance contracts

SoLive

UPS monitored instantly, anytime (cloud)

- Mobile App to monitor the UPS
- Overview of all installed units
- Real-time alarms and notifications
- Dashboard with operating parameters

SoLink

Proactive acknowledgements

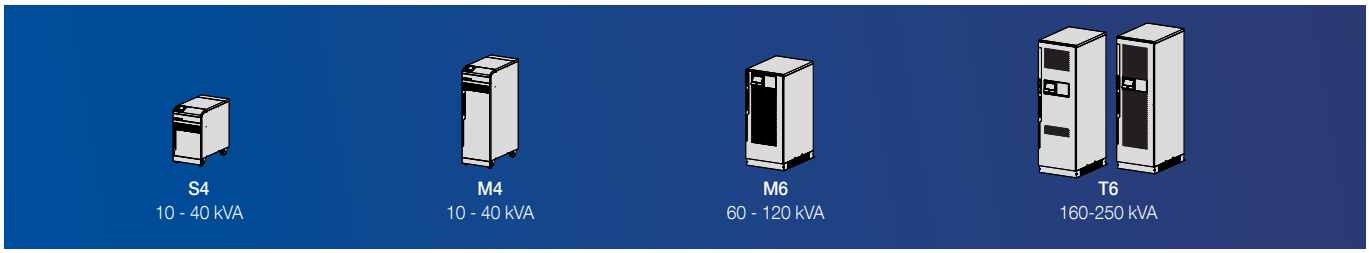
- Alarm directly notifies the expert
- Proactive alarm check by the expert
- Expert calls and briefs the end user

Remote troubleshooting

Remote troubleshooting

- Rapid intervention through temporary and secure access
- Immediate diagnosis and root cause analysis
- Only one on-site visit is required

Technical **data**



	MASTERYS GP4											
Sn [kVA]	10	15	20	30	40	60	80	100	120	160	200	250
Pn [kW]	10	15	20	30	40	60	80	100	120	160	200	250
Input / output 3/1	•	•	•	-	-	-	-	-	-	-	-	-
Input / output 3/3	•	•	•	•	•	•	•	•	•	•	•	•
Parallel configuration	up to 6 units											
INPUT												
Rated voltage	400 V 3ph+N (3 wire input also available on demand for some selected models)											
Voltage tolerance	240 V to 480 V											
Rated frequency	40-70 Hz											
OUTPUT												
Power factor	1 (according to IEC/EN 62040-3)											
Rated voltage	1ph + N: 230 V (can be configured 220/240 V) 3ph + N: 400 V (can be configured 380/415 V)											
Rated frequency	50/60 Hz											
EFFICIENCY (Tüv Süd verified)												
Double conversion VFI mode	up to 96.5%											up to 97.5%(2)
Eco Mode	up to 99%											
Smart Conversion Mode	-											up to 99%
BATTERY												
Technologies	VRLA, NiCd, Li-Ion Battery											
INTERNAL BACK-UP TIME (minutes)(1)												
S4	31	19	13	7	5	-						
M4	90	57	40	24	17	-						
T6	-					11	8	-				
ENVIRONMENT												
Operating ambient temperature	full performance up to +40 °C											
UPS CABINET												
Weight	depends on the number of batteries installed - contact us											
Degree of protection	IP20 (IP21 on demand)											
Colours	RAL 7016											
ADVANCED SERVICE PERFORMANCE												
Life extension	service programme to avoid end of life											
Quick repair	5 times less MTTR than legacy UPS by removable front access parts											
STANDARDS												
Safety	IEC/EN 62040-1											
EMC	IEC/EN 62040-2											
Performance	IEC/EN 62040-3											
Environmental	full compliance with the RoHS EU directive											
Seismic compliance	on demand, in accordance with the Uniform Building Code UBC-1997 Zone 4											
Product declaration	CE, EAC, UKCA											

(1) 80% of rated load PF 1. (2) Only for HE (High Efficiency) version.

	MASTERYS GP4 Rack				
Sn [kVA]	10	15	20	30	40
Pn [kW]	10	15	20	30	40
Input / output 3/1	•	•	•	-	-
Input / output 3/3	•	•	•	•	•
Parallel configuration	up to 6 units				
INPUT					
Rated voltage	400 V 3ph+N				
Voltage tolerance	240 V to 480 V				
Rated frequency	40-70 Hz				
OUTPUT					
Power factor	1 (according to IEC / EN 62040-3)				
Rated voltage	1ph + N: 230 V (can be configured 220/240 V) 3ph + N: 400 V (can be configured 380/415 V)				
Rated frequency	50/60 Hz				
EFFICIENCY (Tüv Süd verified)					
Double conversion VFI mode	up to 96.5%				
Eco Mode	up to 99%				
BATTERY					
Technologies	VRLA, NiCd, Li-Ion Battery				
Battery type	normal life - long life				
Configuration	external				
	separated or shared				
RELIABILITY (MTBF)					
MTBF (VFI)	> 500,000 hrs (attested)				
MTBF (UPS)	> 12,000,000 hrs (attested)				
ENVIRONMENT					
Operating ambient temperature	full performance up to +40 °C (without specific conditions)				
UPS CABINET					
19" rack height	7U				
Dimensions W x D x H (mm)	442 x 820 x 305				
Weight	79 kg max(1)				
Display	3.5"				
Backup battery	normal life - long life				
Degree of protection	IP20				
Colours	RAL 7016				
ADVANCED SERVICE PERFORMANCE					
Life extension	service programme to avoid end of life				
Quick repair	5 times less MTTR than legacy UPS by removable front access parts				
STANDARDS					
Safety	IEC/EN 62040-1				
EMC	IEC/EN 62040-2				
Performance	IEC/EN 62040-3				
Environmental	full compliance with the RoHS EU directive				
Seismic compliance	on demand, in accordance with the Uniform Building Code UBC-1997 Zone 4				
Product declaration	CE, EAC, UKCA				

(1) According to the model.

Socomec: our innovations supporting your energy performance

1 independent manufacturer

4,400 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

HEAD OFFICE

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