

MASTERYS GP4

UPS from 10 to 160 kVA



When **energy** matters

One range to cover every needs

MASTERYS GP4, the most advanced medium power monolithic UPS solution. With reliability engineered-in - to guarantee uptime, innovative features - to maximise energy efficiency and intelligent capability – it fits for the future.



MASTERYS GP4
160 kVA
External battery



MASTERYS GP4
60-80 kVA
Internal battery



MASTERYS GP4
60-120 kVA
External battery



MASTERYS GP4
10-40 kVA
Internal battery

► Field-proven reliability

► Unmatched resiliency
to maximise availability

► Tailor-made as standard



MASTERYS GP4
10-40 kVA
External battery



MASTERYS GP4 Rack
10-20 kVA
Internal battery



130,000+
units operating
in the field



350.000 hours
MTBF officially
certified



Installation tutoring AR application



500,000
tonnes of CO₂ emissions
avoided



Extended and flexible backup time



Unrivalled serviceability



Expert services

Manufacturer's maintenance for trouble-free UPS operation

Online platforms

UPS selector

Make the right UPS choice

Mobile apps

eWIRE

Tutored UPS installation

The UPS Selector is the ideal interface to choose the UPS best suited to your specific applications.

Enter just a few pieces of information:

- Load value.
- Input and output voltage.
- Back-up time.
- Spare power capacity.

By entering just a few parameters, a comparative file is generated that presents three proposals to meet your needs. The Socomec Team will then respond with a quote within 24 hours.

Using Augmented Reality technology, eWIRE recognises the UPS to be installed by simply focusing it with the installer's smartphone camera.

eWIRE provides step-by-step instructions to correctly position the UPS, verify electrical protection and guide the cabling of both the UPS and battery.

Once the installation is complete, eWIRE sends a detailed report to the Socomec Services Centre to validate the installation report and authorise the commissioning to be performed by the Socomec Services team.



Selection

Installation

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.

Mobile apps

SoLive UPS

UPS status always in hand

Cloud service

SoLink

Socomec experts 24/7 UPS remote monitoring

SoLive UPS enables the customer to monitor the system - in real-time, via smartphone - by connecting the UPS to the Socomec cloud platform.

The mobile app automatically reports the latest status of the installed UPS, displays alarms and provides instant notifications of any unexpected events.

Data provided:

- Current status of the UPS.
- Battery level.
- Battery back-up time minutes.
- UPS operating temperature.

Contact your local agent to learn more about the availability of this service.



Remote service availability by connecting your UPS to Socomec's cloud platform.

Periodic UPS health-check and customer recommendations report.

In the event of an anomaly, the system provides instant notification to the nearest Socomec Service Centre.

A specialist Service Centre engineer will carry out a proactive diagnostic check by remotely accessing the working parameters.

Troubleshooting and corrective actions can be taken immediately according to the Service Level Agreement.

Remote troubleshooting

Quick intervention via remote access.

Immediate diagnosis and root cause analysis.

Only one on-site visit is required.

Operation

Maintenance

MASTERYS GP4

Unrivalled power performance



Superior

Unrivalled power Performance

Reliable and cost effective protection to assure operational Continuity.



MASTERYS GP4 for all your applications

- Small & Medium Data Centres
- Banks
- E-medical
- Edge data centres
- Medical devices
- Telecom & media infrastructure
- Transport
- Control rooms

Unmatched resiliency to maximise availability

- UPS architecture eliminates single point of failure associated with traditional monolithic UPS
- Fault tolerant concept provides double conversion mode redundancy to a minimum of 50% of rated power in the worst case scenario (60-160 kW models)
- Self-sufficient power bricks
- Based on our field proven medium power platform
- Limited number of power converters - each designed to eliminate potential fault propagation for best MTBF
- Powerful and robust static bypass

Designed for:



Optimisation

- Compatibility with existing installation.
- Reduced footprint saving valuable space.
- Reduced rear clearance and no side clearance.



Adaptability

- Common or separate input mains.
- 3W+N / 3W input compatibility.
- TN-C / TN-S / IT / TT grounding compatible.
- IP21 degree of protection.



Flexibility

- 20+ options of brick and accessory.
- Flexible battery run-time and type.
- Parallel configuration up to 6 units.
- Easy integration into the IT LAN.

MASTERYS GP4 Rack

Tailored protection for Edge computing

Whilst organisations are outsourcing to colocation and cloud service providers, they are also investing heavily in local Edge computing to meet new and evolving requirements: data security, analytics, maintaining control of mission-critical applications, IoT development programmes and augmented reality experience.

Watch the video!



Ultra-high reliability

- MTBF VFI > 500.000 hours.
- MTBF UPS > 12.000.000 hours.
- MTTR ≈ 30 min (compared to 6 hours with current technologies).



Engineered for easy integration

- Fits within existing 19" cabinet.
- Lithium battery option.
- Front access operation.



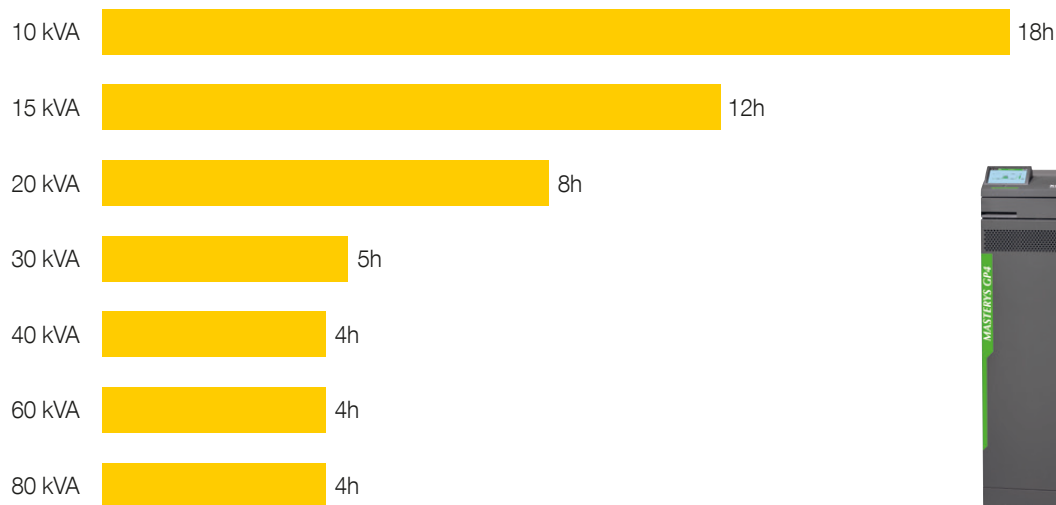
Front access maintenance

- Easy maintenance - innovative brick swap architecture.
- Power brick replacement without rack disconnection.
- Safe guided fixing procedure.
- Minimized risk of human error.



MASTERYS GP4

Extended and flexible backup time*



*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.

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

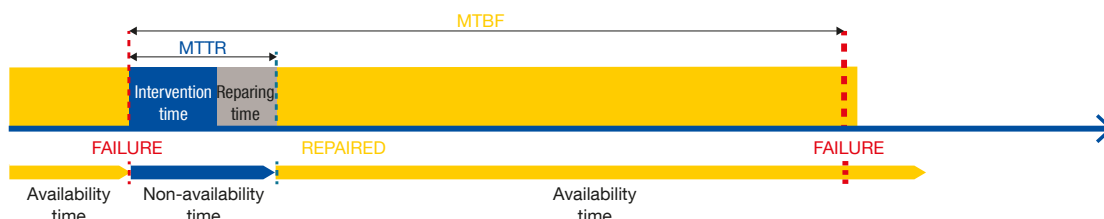
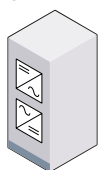
MASTERYS GP4

Your uptime, our priority

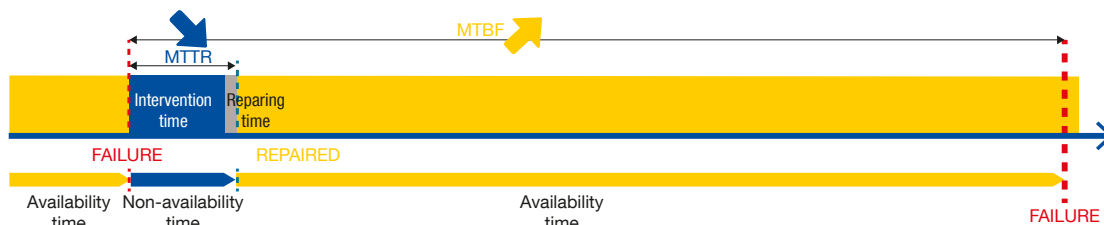
The primary goal of every UPS system is to ensure power availability. To achieve maximum system availability, it is necessary to deliver high reliability (MTBF) and to reduce repair times (MTTR) as much as possible.

The **MASTERYS GP4** range exceeds the market standard with a MTBF VFI* officially certified over **350.000 hours**.

Legacy UPS



MASTERYS GP4



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

Watch
the video!



MASTERYS GP4 has been specifically engineered for safe and fast maintenance by advanced brick replacement – with on site repairs 5x faster than standard UPS and an enhanced First Time Fix Rate.

Seismic resistant



MASTERYS GP4 units have successfully passed several testing programs to verify their resistance to withstand seismic events.

Tests have been performed by accredited laboratories according to the standards covering zones with the highest level of seismic activity: Zone 4.

When the test has been completed, the UPS must be intact and working perfectly.

Withstand
Zone 4
seismic activity

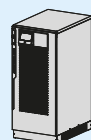
Technical data



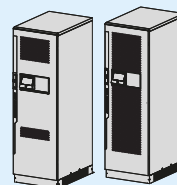
S4
10 - 40 kVA



M4
10 - 40 kVA



M6
60 - 120 kVA



T6
60 - 80 kVA
160 kVA

MASTERYS GP4

Sn [kVA]	10	15	20	30	40	60	80	100	120	160
Pn [kW]	10	15	20	30	40	60	80	100	120	160
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)
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
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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
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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.

Technical data

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				

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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)
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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
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(1) According to the model.

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
- 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

SOCOMEK GROUP

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100 years
OF SHARED ENERGY

socomec
Innovative Power Solutions