



MASTERYS GP4

4th generation digital native high performance UPS
from 60 to 160 kVA/kW

Three-phase UPS



Performance beyond all expectations

- Performance certified by an independent body.
- Designed to manage Lithium backup storage.
- Modern aesthetics combined with ergonomics.
- Large 7" touch screen display facilitates system control and usage.

Energy Saving: high efficiency without compromise

- Offers the highest efficiency on the market using a VFI – Double Conversion Mode, the only UPS working mode to ensure a total load protection from any mains quality issues.
- Fast Return On Investment: UPS "self-paying" with energy saving.
- No overdesign cost thanks to its reduced €/kW ratio.

Full-rated power: kW=kVA

- No power downgrade when supplying the latest generation of servers (leading or unity power factor).
- True full active power, according to IEC 62040
- Full performance up to 40 °C without derating.

Extremely reliable, robust and durable

- Completely designed and manufactured in Europe.
- Best in class and officially attested:
 - MTBF_{VFI} = 300,000 hours,
 - MTBF_{UPS} = 10,000,000 hours.
- Certified seismic resistance.
- Life extension service program doubles life expectancy.

Tailor-made - as standard

- Easy configurable for retrofit in existing installations.
- Catalogue base flexibility to meet specific needs.
- Fast delivery time for a fully personalized solution.

Native digital solution

- Ready for integration in LAN and Industry 4.0 ecosystem.
- IoT ready and remote cloud services.
- Multiprocessor intelligent product architecture.
- Product identification and configuration using standard QR codes.

The solution for

Mission Critical

- > Small and medium data centres
- > IT infrastructure
- > E-Medical
- > Medical devices
- > Control rooms

Smart manufacturing

- > Edge computing
- > IoT systems
- > Cloud service access

Certifications



The MASTERYS GP4 series is certified by TÜV SÜD with regard to product safety (EN 62040-1).




Seismic resistant
The MASTERYS GP4 units have successfully passed severe tests to verify their resistance to withstand Zone 4 seismic events.

Advantages



A tutoring app for a simplified installation

- > Augmented Reality technology 
- > Guided workflow on your smartphone
- > Verification and validation by the Socomec Service Center



System features

- Dual input mains.
- Internal maintenance bypass switch.
- Input mains switch breaker.
- Output switch breaker.
- Auxiliary mains switch breaker.
- Backfeed protection: detection circuit.
- Power walk-in ramp for excellent compliance with generators.
- Common or shared battery for N+1 configuration.

Standard communication features

- 7" touch screen multilingual colour graphic display.
- 2 slots for communication options.
- USB port to download log file.
- Ethernet port for service purposes.

System options

- External battery cabinet with normal or long-life VRLA batteries.
- High capacity battery charger.
- Alternative backup power technologies:
 - NiCd batteries
 - Li-Ion batteries
 - Li-Ion capacitors
- 3-phase input without neutral.
- Internal backfeed isolation device.
- Common mains coupling bars.
- TN-C grounding system.
- ACS synchronisation system.
- IP21 degree of protection.
- Top cabling kit.
- Top ventilation kit.
- Bypass redundant cooling.
- Seismic fixing kit.

Technical data

MASTERYS GP4					
Sn [kVA]	60	80	100	120	160
Pn [kW]	60	80	100	120	160
Input/output 3/3	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	50/60 Hz ± 10%				
OUTPUT					
Power factor	1 (according to IEC/EN 62040-3)				
Rated voltage	3ph + N: 400 V (can be configured 380/415 V)				
Rated frequency	50/60 Hz				
Frequency tolerance	± 2% (configurable for GenSet compatibility)				
Total output voltage distortion	< 1%				
Overload	125% for 10 minutes, 150% for 1 minute				
Crest factor	3:1				
BYPASS					
Rated voltage	rated output voltage				
Voltage tolerance	± 15% (configurable from 10% to 20%)				
Rated frequency	50/60 Hz				
Frequency tolerance	± 2%				
EFFICIENCY (TÜV SÜD verified)					
Double conversion mode	up to 96.5%				
Always on mode	up to 99%				
ENVIRONMENT					
Operating ambient temperature	from 0 °C to +40 ⁽¹⁾ °C (from 15 °C to 25 °C for maximum battery life)				
Relative humidity	0% - 95% without condensation				
Maximum altitude	1000 m without derating (max. 3000 m)				
Acoustic level at 1 m (ISO 3746)	< 55 dBA	< 60 dBA	< 65 dBA	< 65 dBA	< 65 dBA
UPS CABINET					
Dimensions	W	600 mm			
	D	855 mm			
	H	1400 mm			1930 mm
Weight	174 kg	186 kg	228 kg	240 kg	350 kg
Degree of protection	IP20				
Colours	RAL 7016				
STANDARDS					
Safety EMC	IEC/EN 62040-1, AS 62040.1.1, AS 62040.1.2				
Performance	IEC/EN 62040-3, AS 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, RCM (E2376)				

Communication options

- Dry-contact, RS232/485 interfaces.
- MODBUS RTU.
- MODBUS TCP.
- BACnet/IP interface.
- NET VISION: professional WEB/SNMP, ethernet interface for UPS monitoring and remote automatic shutdown.
- Ethernet gateway for cloud services.

Remote monitoring service

- LINK-UPS, remote monitoring service which connects your UPS to your Critical Power specialist 24/7.

Our dedicated Expert Services for UPS

We offer services to ensure your UPS highest availability:

- > Commissioning
- > On-site intervention
- > Preventive maintenance visits
- > 24-hour call out and rapid on-site repairs
- > Maintenance packages
- > Training



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