

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 resistent 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



OWIRE

- Guided workflow on your smartphone
- Verification and validation by the Socomec Service Center





MASTERYS GP4 Three-phase UPS from 60 to 160 kVA/kW

System features

- Dual input mains.
- Internal maintenance bypass switch.
- Input mains switch breaker.
- Output switch breaker.
- Auxiliary mains switch breaker.
- Backfeed protection: detection circuit.

60

60

- Power walk-in ramp for excellent compliance with generators.
- Common or shared battery for N+1 configuration.

Technical data

Sn [kVA]

Pn [kW]

INPUT

Input/output 3/3

Rated voltage

Voltage tolerance

Rated frequency

Rated voltage

Rated frequency Frequency tolerance

Total output voltage distortion

OUTPUT Power factor

Overload

BYPASS

Crest factor

Rated voltage

Voltage tolerance

Rated frequency

Parallel configuration

Standard communication features

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

MASTERYS GP4

100

100

3/3

up to 6 units

400 V 3ph+N (3 wire input also available on demand)

240 V to 480 V

50/60 Hz ± 10%

1 (according to IEC/EN 62040-3)

3ph + N: 400 V (can be configured 380/415 V)

50/60 Hz

± 2% (configurable for GenSet compatibility)

<1%

125% for 10 minutes, 150% for 1 minute

3:1

rated output voltage

± 15% (configurable from 10% to 20%)

CE, RCM (E2376)

80

80

• Ethernet port for service purposes.

120

120

System options

- External battery cabinet with normal or long-life VRLA batteries.
- High capacity battery charger.
- Alternative backup power technologies: - NiCd batteries
 - Li-lon batteries
 - Li-lon 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.

160

160

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 clould sevices.

Remote monitoring service

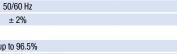
 LINK-UPS, remote monitoring service which connects your UPS to your Critical Power specialist 24/7.

Our dedicated Expert Services for UPS

We offer services to ensure your UPS highest availability:

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





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
UPS CABINET						
Dimensions	W	600 mm				
	D	855 mm				
	Н	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