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.
- 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_UVP = 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.
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

<table>
<thead>
<tr>
<th>MASTERYS GP4</th>
<th>60</th>
<th>80</th>
<th>100</th>
<th>120</th>
<th>160</th>
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<tbody>
<tr>
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<td>Input/output 3/3</td>
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<td>Parallel configuration</td>
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</tbody>
</table>

INPUT

- Rated voltage: 400 V 3ph+N (3 wire input also available on demand)
- Voltage tolerance: ±4% 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%

Efficiency (TÜV SÜD verified)

- Double conversion mode: up to 96.5%

ENVIROMENT

- Operating ambient temperature: from 0 °C to +40 °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 (WxDxH): 600 mm x 855 mm x 1400 mm to 1930 mm
- Weight: 174 kg to 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

Contact:

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