MASTERYS BC
Reliable, simple and ready-to-use power protection from 15 to 80 kVA

A complete, cost-effective solution
• Online double conversion mode with an output power factor of 0.9 providing 12% more active power compare to UPS with a power factor of 0.8.
• Dual input mains allows you to manage independent power sources.
• Increased system availability placing two UPS in parallel for 1+1 redundancy.
• Internal manual bypass for easy maintenance without power interruption.
• Internal batteries providing more than 1 hour runtime.
• Multilanguage display.

Tailored to your environment
• Saves space with a reduced footprint and optimized cabinet size.
• Low noise level.
• Flexible battery solutions
• Compact, lightweight and easy to install.
• Extended battery life and performance with exclusive EBS battery charging management for increased battery life.

The solution for
> Server rooms
> Service sector
> Infrastructure
> Healthcare sector
> Light industrial applications

Technology
> VFI “online double conversion”

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

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

Websites: www.socomec.com/services
### Standard electrical features
- Dual input mains (15–40 kVA).
- Internal manual bypass.
- Backfeed protection: detection circuit.
- EBS (Expert Battery System) for battery management.

### Electrical options
- Dual input mains (60–80 kVA).
- External battery cabinet.
- External temperature sensor.
- Additional battery chargers.
- Galvanic isolation transformer.
- Parallel kit.
- ACS synchronization system.

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

### Technical data

<table>
<thead>
<tr>
<th>MASTERYS BC</th>
<th>Sn [kVA]</th>
<th>15</th>
<th>20</th>
<th>30</th>
<th>40</th>
<th>60</th>
<th>80</th>
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<tbody>
<tr>
<td>Pn [kW]</td>
<td>13.5</td>
<td>18</td>
<td>27</td>
<td>36</td>
<td>54</td>
<td>72</td>
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<tr>
<td>Input/output 3/1</td>
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<td>Input/output 3/3</td>
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<tr>
<td>Parallel configuration</td>
<td>1+1</td>
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</table>

- **INPUT**
  - Rated voltage: 400 V 3ph + N
  - Voltage tolerance: ± 10% (configurable from 10% to 20%)
  - Rated frequency: 50/60 Hz ± 10%
  - Power factor / THD: 0.99 < 3%

- **OUTPUT**
  - Rated voltage: 1ph + N: 230 V (can be configured 220/240 V)
    3ph + N: 400 V (can be configured 380/415 V)
  - Voltage tolerance: static load ±1 % dynamic load in accordance with VFI-SS-111
  - Rated frequency: 50/60 Hz
  - Frequency tolerance: ± 2% (configurable from 1% to 8%)
  - 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% (configurable for Genset compatibility)

- **EFFICIENCY**
  - Online mode: 100% of load
  - up to 94.5%

- **ENVIRONMENT**
  - Operating ambient temperature: from 0 °C up 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): < 52 dBA | < 55 dBA | < 62 dBA

- **UPS CABINET**
  - Dimensions W x D x H: 444 x 795 x 800/1000/1400 mm
  - Weight: 105 kg | 110 kg | 135 kg | 152 kg | 180 kg | 200 kg
  - Degree of protection: IP20
  - Colours: RAL 7012

- **STANDARDS**
  - Safety: IEC/EN 62040-1, AS 62040.1.1, AS 62040.1.2
  - EMC: IEC/EN 62040-2, AS 62040.2
  - Performance: IEC/EN 62040-3, AS 62040.3
  - Product declaration: CE, RCM (E2376)

### Standard communication features
- MODBUS RTU.
- 2 slots for communication options.

### Communication options
- Dry-contact interface.
- PROFIBUS.
- NET VISION: professional WEB/SNMP interface for UPS monitoring and shutdown management of several operating systems.

### UPS and internal batteries

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<th>UPS</th>
<th>ln/Out</th>
<th>kW</th>
<th>15</th>
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(1) The standard model is prepared for a 1+1 redundant system. Upon request, it is possible to have connected up to 6 modules in a parallel system. (2) Conditions apply. (3) Without batteries.