**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).
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.

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.

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>UPS</th>
<th>MASTERYS BC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sn [kVA]</td>
<td>15</td>
</tr>
<tr>
<td>Pn [kVA]</td>
<td>13.5</td>
</tr>
<tr>
<td>Input/output 3/1</td>
<td>•</td>
</tr>
<tr>
<td>Input/output 3/3</td>
<td>•</td>
</tr>
<tr>
<td>Parallel configuration</td>
<td>1+1[3]</td>
</tr>
</tbody>
</table>

**INPUT**
- Rated voltage: 400 V 3ph + N
- Voltage tolerance: ± 15% (configurable from 10% to 20%)
- Rated frequency: 50/60 Hz ± 10%
- Power factor / THDI: 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, IEC/EN 62040-1.1, IEC/EN 62040-1.2
- EMC: IEC/EN 62040-2, IEC/EN 62040-2.2
- Performance: IEC/EN 62040-3, IEC/EN 62040-3
- Product declaration: CE, RCM (E2376)

---

(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.