A complete, cost-effective solution
- Online double conversion mode with an output power factor of 0.9 providing 12% more active power compared 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.
- 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

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

Technical data

<table>
<thead>
<tr>
<th>Sn [kVA]</th>
<th>100</th>
<th>120</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pn [kW]</td>
<td>90</td>
<td>108</td>
</tr>
</tbody>
</table>

**Parallel configuration 1+1(1)**

**INPUT**
- Rated voltage 400 V 3ph + N
- Voltage tolerance 240 V to 480 V(2)
- Rated frequency 50/60 Hz ± 10%
- Power factor / THDI 0.99 / < 3%

**OUTPUT**
- Rated voltage 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) < 65 dBA

**UPS CABINET**
- Dimensions W x D x H 700 x 800 x 1930 mm
- Weight 410 kg 430 kg
- Degree of protection IP20
- Colours RAL 7012, silver grey frontal door

**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)

(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.
Three-phase UPS

A complete, cost-effective solution

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- Compact, lightweight and easy to install.
- Extended battery life and performance with exclusive EBS battery charging management for increased battery life.

Tailored to your environment

- Reliable, simple and ready-to-use power protection from 100 to 120 kVA
- The solution for:
  - Server rooms
  - Service sector
  - Infrastructure
  - Healthcare sector
  - Light industrial applications

Certifications

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

Technical data

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<tr>
<td>Parallel configuration</td>
<td>1+1(1)</td>
<td></td>
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</tbody>
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**INPUT**

- Rated voltage: 400 V 3ph + N
- Voltage tolerance: 240 V to 480 V(2)
- Rated frequency: 50/60 Hz ± 10%
- Power factor / THDI: 0.99 / < 3%

**OUTPUT**

- Rated voltage: 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 with 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(2) °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): < 65 dBA

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- Colours: RAL 7012, silver grey frontal door

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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.

Remote monitoring service

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

Electrical options

- Dual input mains.
- Internal manual bypass.
- Backfeed protection: detection circuit.
- EBS (Expert Battery System) for battery management.

Electrical options

- External battery cabinet.
- External temperature sensor.
- Additional battery chargers.
- Galvanic isolation transformer.
- Parallel kit.
- ACS synchronization system.

Communication options

- MODBUS TCP.
- PROFIBUS.
- NET VISION: professional WEB/SNMP interface for UPS monitoring and shutdown management of several operating systems.

Standard communication features

- Dry-contact interface.
- MODBUS RTU.
- 2 slots for communication options.

Standard electrical features

- Dual input mains.
- Internal manual bypass.
- Backfeed protection: detection circuit.
- EBS (Expert Battery System) for battery management.

Remote monitoring service

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