



# MASTERYS BC

Reliable, simple and ready-to-use power protection  
from 100 to 120 kVA

Three-phase UPS



## 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).

### 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.
- 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.

## Standard electrical features

- 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.

## Standard communication features

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

## Communication options

- MODBUS TCP.
- 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

<b>MASTERYS BC</b>	
Sn [kVA]	100   120
Pn [kW]	90   108
Parallel configuration	1+1 <sup>(1)</sup>
<b>INPUT</b>	
Rated voltage	400 V 3ph + N
Voltage tolerance	240 V to 480 V <sup>(2)</sup>
Rated frequency	50/60 Hz ± 10%
Power factor / THDI	0.99 / < 3%
<b>OUTPUT</b>	
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
<b>BYPASS</b>	
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)
<b>EFFICIENCY</b>	
Online mode @ 100% of load	up to 94,5%
<b>ENVIRONMENT</b>	
Operating ambient temperature	from 0 °C up to +40 <sup>(2)</sup> °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
<b>UPS CABINET</b>	
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
<b>STANDARDS</b>	
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.