



# 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

- MODBUS RTU.
- 2 slots for communication options.

## Communication options

- Dry-contact interface.
- 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

MASTERYS BC		
Sn [kVA]	100	120
Pn [kW]	90	108
Parallel configuration	1+1 <sup>(1)</sup>	
INPUT		
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%	
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 <sup>(3)</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	
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 (TÜV SÜD certified), EN 60950-1, AS 62040.1.1, AS 62040.1.2	
EMC	IEC/EN 62040-2, AS 62040.2	
Performance	VFI-SS-111 - 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. (3) Without batteries.