



# MASTERYS BC

from 15 to 40 kVA

solutions for your business critical applications

Single-phase and  
three-phase UPS



## The solution for

- > Data centres
- > Telecommunications
- > Service Sector

## Technology

- > VFI "online double conversion"

## 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.
- 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.

## 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/JBUS RTU (RS232/RS485)
- 2 slots for communication options.

## Communication options

- Dry-contact interface.
- Remote mimic panel
- PROFIBUS.
- NET VISION: professional WEB/SNMP interface for UPS monitoring and shutdown management of several operating systems.

## Remote monitoring service

- Remote mobile and web-based surveillance service connected 24/7 to your local Socomec Service Centre.

## Technical data

MASTERYS BC				
Sn [kVA]	15	20	30	40
Pn [kW]	13.5	18	27	36
Input/output 3/1	•	•	-	-
Input/output 3/3	•	•	•	•
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	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			
<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%			
<b>ENVIRONMENT</b>				
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)	< 52 dBA		< 55 dBA	
<b>UPS CABINET</b>				
Dimensions W x D x H	444 x 795 x 800/1000/1400 mm			
Weight <sup>(3)</sup>	105 kg	110 kg	135 kg	152 kg
Degree of protection	IP20			
Colours	RAL 7012			
<b>STANDARDS</b>				
Safety	EN 62040-1 (TÜV SÜD certified), EN 60950-1			
EMC	EN 62040-2			
Performance	EN 62040-3 (VFI-SS-111)			
Product declaration	CE			

(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.

## UPS and internal batteries

