



# MASTERYS BC

Reliable, simple and ready-to-use power protection  
from 60 to 80 kVA

Three-phase UPS



## The solution for

- > Server rooms
- > Service sector
- > Infrastructure
- > Healthcare sector
- > Light industrial applications

## Technology

- > VFI "online double conversion"

## Our dedicated Expert Services for UPS

We offer services to ensure your UPS highest availability:

- > Commissioning
- > On-site intervention
- > Preventive maintenance visits
- > 24-hour call out and rapid on-site repairs
- > Maintenance packages
- > Training



[www.socomec.com/services](http://www.socomec.com/services)

## 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

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

## Electrical options

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

## Standard communication features

- 2 slots for communication options.
- MODBUS RTU.

## Communication options

- Dry-contact interface (configurable voltage-free contacts).
- MODBUS RTU RS485 OR MODBUS TCP.
- PROFIBUS / PROFINET gateway.
- BACnet/IP interface.
- NET VISION: professional WEB/SNMP Ethernet interface for secure UPS monitoring and remote automatic shutdown.
- REMOTE VIEW PRO supervision software.
- IoT gateway for Socomec cloud services and SOLIVE UPS mobile app.

## Technical data

<b>MASTERYS BC</b>	
Sn (kVA)	60 <span style="margin-left: 150px;">80</span>
Pn (kW)	54 <span style="margin-left: 150px;">72</span>
Input/output	• <span style="margin-left: 150px;">•</span>
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 94,5%
<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)	< 62 dBA
<b>UPS CABINET</b>	
Dimensions W x D x H	444 x 795 x 1400 mm
Weight <sup>(3)</sup>	180 kg <span style="margin-left: 150px;">200 kg</span>
Degree of protection	IP20
Colours	RAL 7012
<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. (3) Without batteries.

## Remote monitoring and cloud services

- LINK-UPS: Socomec 24/7 remote monitoring service connecting your installation to the nearest Socomec Service Centre.
- SOLIVE UPS: mobile app enabling the monitoring of the UPS systems from a smartphone.