



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

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

MASTERYS BC		
Sn (kVA)	60	80
Pn (kW)	54	72
Input/output	•	•
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	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	
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)	< 62 dBA	
UPS CABINET		
Dimensions W x D x H	444 x 795 x 1400 mm	
Weight ⁽³⁾	180 kg	200 kg
Degree of protection	IP20	
Colours	RAL 7012	
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. (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.