



MASTERYS **BC**

Reliable, simple and ready-to-use power protection
from 15 to 40 kVA

Single-phase and
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

The ideal protection

- Simple and reliable power protection.
- Tailored for medium-sized businesses.
- Advantages of advanced technology.

An excellent size/power/backup time ratio

- Ideal for sensitive professional applications.
- Suitable for protection in IT environments thanks to the internal back-up time and the possibility of installation in 19" rack cabinets.

Tailored to your environment

- Easy to install.
- Unique to the market with its highly compact size.
- Flexible back-up times: different back-up time configurations are available either within the UPS standard cabinet or by using taller UPS cabinets, without changing the floor space (W = 444, D = 795 mm).
- Increased system availability placing two UPS in parallel.
- Fitted with a multilanguage LCD display.
- Separate rectifier supply and bypass networks.

Standard electrical features

- Dual input mains (3/1 models).
- Internal manual bypass.
- Backfeed protection: detection circuit.
- EBS (Expert Battery System) for battery management.

Electrical options

- Dual input mains (3/3 models).
- External battery cabinet.
- External temperature sensor.
- Additional battery chargers.
- Parallel kit.
- ACS synchronization system.

Technical data

MASTERYS BC				
Sn [kVA]	15	20	30	40
Pn [kW]	12	16	24	32
Input/output 3/1	•	•	-	-
Input/output 3/3	•	•	•	•
Parallel configuration	up to 2 units			
INPUT				
Rated voltage	400 V (3ph + N)			
Voltage tolerance	± 20 % (up to -35 % at 70 % nominal load)			
Rated frequency	50/60 Hz ± 10 %			
Power factor / THDI	0.99 / < 3 %			
OUTPUT				
Rated voltage	230 V (1ph + N), 400 V (3ph + N)			
Voltage tolerance	± 1 % 1ph + N can be configured 208 ⁽¹⁾ /220/230/240 V 3ph + N can be configured 360 ⁽¹⁾ /380/400/415 V			
Rated frequency	50/60 Hz			
Frequency tolerance	± 2 % (configurable from 1 % to 8 % with generating set)			
Overload	125 % for 10 minutes, 150 % for 1 minute			
Crest factor	3:1 (complying with IEC 62040-3)			
Power factor without derating	up to 0.9 leading (up to 0.7 leading for 10 minutes)			
BYPASS				
Voltage tolerance	rated voltage ± 15 % (configurable from 10 % to 20 %)			
Frequency tolerance	50/60 Hz ± 2 % (configurable from 1 % to 8 %)			
EFFICIENCY				
Online mode	up to 93%			
Eco Mode	up to 98%			
ENVIRONMENT				
Operating ambient temperature	from 0 °C up to +40 °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		
UPS CABINET				
Dimensions type S (short) W x D x H	444 x 795 x 800 mm			
Dimensions type M (medium) W x D x H	444 x 795 x 1000 mm			
Dimensions type T (tall) W x D x H	444 x 795 x 1400 mm			
Weight with standard batteries	195 kg	240 kg	315 kg	415 kg
Degree of protection	IP20 (according to IEC 60529)			
Colours	RAL 7012, plastic front panels: dark grey			
STANDARDS				
Safety	IEC/EN 62040-1, EN 60950-1-1, 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) @ Pout = 90 % Pnom.

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.

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.

UPS and internal batteries

