

# MASTERYS BC+

## 4th generation digital native general purpose UPS

from 100 to 160 kVA





### The best protection with a cost-effective approach

- Online double conversion mode with an output power factor of 0.9.
- Best-in-class online efficiency.
- Versatile to operate in different electrical environments.
- Standard design with dual input mains to manage independent power sources.
- Standard design equipped with input, output and auxiliary mains switches.
- Internal manual bypass for easy maintenance with no power interruption.

#### Easy to integrate and user-friendly

- · Compact, lightweight and easy to install.
- · Low acoustic noise level.
- Modern aesthetics combined with ergonomics
- User-friendly multilingual interface with a graphic LCD display.

#### Extremely reliable, robust and durable

- · Completely designed and manufactured in Europe.
- Certified seismic resistance.

#### Tailor-made - as standard

- Easy configurable for retrofit in existing installations.
- · Catalogue base flexibility to meet specific needs.
- Fast delivery time for a fully personalized solution.

#### Native digital solution

- Ready for integration in LAN and Industry 4.0 ecosystem.
- IoT ready and remote cloud services.
- Multiprocessor intelligent product architecture.
- Product identification and configuration using standard QR codes.

#### The solution for

#### **Commercial buildings**

- > Security control
- > Payment systems
- > IT networking

#### **Smart manufacturing**

#### **Certifications**





successfully passed severe te to verify resistance to withstar Zone 4 seismic events.

#### **Advantages**







#### A tutoring app for a simplified installation

- > Augmented Reality technology
- > Guided workflow on your smartphone
- > Verification and validation by the Socomec Service Center







**@WIRE** 

- > Emergency services
- > Building automation

- > Process control systems
- > Cloud service access



#### System features

- Dual input mains.
- Internal maintenance bypass switch.
- Input mains switch breaker.
- Output switch breaker.
- Auxiliary mains switch breaker.
- Backfeed protection: detection circuit.
- Power walk-in ramp for excellent compliance with generators.

## Standard communication features

- Graphical LCD multilingual display.
- 2 slots for communication options.
- USB port to download log file.
- Ethernet port for service purposes.

#### System options

- External battery cabinet with normal or long-life VRLA batteries.
- · High capacity battery charger.
- Alternative backup power technologies:
  - NiCd batteries
  - Li-Ion batteries
  - Li-lon capacitors
- 3-phase input without neutral.
- Internal backfeed isolation device.
- Common mains coupling bars.
- TN-C grounding system.
- ACS synchronisation system.
- IP21 degree of protection.
- Top cabling kit.
- · Top ventilation kit.
- Bypass redundant cooling.
- · Seismic fixing kit.

### Communication options

- Dry-contact, RS232/485 interfaces.
- MODBUS RTU.
- MODBUS TCP.
- BACnet/IP interface.
- NET VISION: professional WEB/SNMP, ethernet interface for UPS monitoring and remote automatic shutdown.
- Ethernet gateway for clould sevices.

#### Remote monitoring service

 LINK-UPS, remote monitoring service which connects your UPS to your Critical Power specialist 24/7.

# 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

#### Technical data

		MASTERYS BC+		
Sn [kVA]		100	120	160
Pn [kW]		90	108	144
Input/output		3/3		
Parallel configuration		up to 6 units		
INPUT				
Rated voltage		400 V 3ph+N (3 wire input also available on demand)		
Voltage tolerance		240 V to 480 V		
Rated frequency		50/60 Hz ± 10%		
OUTPUT				
Power factor		0.9 (according to IEC/EN 62040-3)		
Rated voltage		3ph + N: 400 V (can be configured 380/415 V)		
Rated frequency		50/60 Hz		
Frequency tolerance		± 2% (configurable for GenSet compatibility)		
Total output voltage distortion		<1%		
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%		
EFFICIENCY				
Double conversion mode		up to 95%		
Always on mode		up to 99%		
ENVIRONMENT				
Operating ambient temperature		from 0 °C to +35 °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)		< 60	dBA	< 65 dBA
UPS CABINET				
	W		600 mm	
Dimensions	D	855 mm		
	Н	1400	mm	1930 mm
Weight		220 kg	232 kg	340 kg
Degree of protection		·	IP20	•
Colours		Metallised Grey E150HVR		
STANDARDS				
Safety EMC		IEC/EN 62040-1, AS 62040.1.1, AS 62040.1.2		
Performance		IEC/EN 62040-3, AS 62040.3		
Environmental		full compliance with the RoHS EU directive		
Seismic compliance		on demand, in accordance with the Uniform Building Code UBC-1997 Zone 4		
Product declaration		CE, RCM (E2376)		

